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ABUNDANCE, AGE, SEX AND SIZE OF CHINOOK, SOCKEYE, COHO, AND
CHUM SALMON RETURNING TO UPPER COOK INLET, ALASKA, IN 1995

by

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and

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ABSTRACT

The commercial harvest and escapement of sockeye salmon *Oncorhynchus nerka* to Upper Cook Inlet (UCI) in 1995 was 4,125,386 fish. The commercial harvest was 2,951,827 while the escapement into the six major river systems was 1,173,559. The exploitation rate for sockeye salmon in UCI was 71%.

The combined UCI commercial sockeye salmon harvests and escapements were comprised of four major age classes. The age classes, numbers of fish and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement & Harvest</u>	<u>Mean Length</u>
1.2	24.6	989,636	495 mm
1.3	32.0	1,285,863	567 mm
2.2	11.1	446,611	502 mm
2.3	30.0	1,204,586	575 mm

A total of 17,857 chinook salmon *O. tshawytscha* were commercially harvested in UCI in 1995. The Upper Subdistrict eastside set gillnet harvest of 12,032 fish represented 67% of the total commercial harvest and was comprised of the following major age classes:

<u>Age Class</u>	<u>%</u>	<u># Harvested</u>	<u>Mean Length</u>
1.2	22.4	2,689	646 mm
1.3	32.9	3,956	895 mm
1.4	35.0	4,205	1,026 mm
1.5	5.9	710	1,107 mm

Sex composition of chinook salmon favored males (54.8%) in the Upper Subdistrict harvest.

The commercial harvest of coho salmon *O. kisutch* in UCI in 1995 was 446,954 fish. Selected commercial gillnet harvests which represented 80% of the total commercial harvest were comprised of the following age classes:

<u>Age Class</u>	<u>%</u>	<u># Harvested</u>	<u>Mean Length</u>
1.1	8.1	28,674	528 mm
2.1	82.1	292,589	546 mm
3.1	9.8	34,925	567 mm

The commercial harvest of chum salmon *O. keta* in UCI in 1995 was 529,422 fish. The drift gillnet harvest was 468,224 fish or 88% of the total and was comprised mainly of age 0.3 (90.0%) and age 0.4 (8.0%) chum salmon. Female composition of chum salmon was 53.6% of the harvest.

The commercial harvest of pink salmon *O. gorbuscha* in UCI in 1995 totaled 133,575. The Yentna River which is a significant contributor to pink salmon production in UCI had an index of abundance of 104,057 fish.

KEY WORDS: Salmon, *Oncorhynchus*, age, size, commercial catch, escapement, exploitation rate, Upper Cook Inlet, Alaska

INTRODUCTION

Upper Cook Inlet (UCI) supports the production of all five species of Pacific salmon *Oncorhynchus* (Figure 1). Since 1966 the average harvest of salmon in UCI was 4.5 million fish representing 2.9 million sockeye *O. nerka*, 1.1 million even-year pink *O. gorbuscha*, 0.1 million odd-year pink, 0.6 million chum *O. keta*, 0.4 million coho *O. kisutch*, and 16,000 chinook *O. tshawytscha* salmon. Salmon harvests in UCI represent approximately five percent of the statewide commercial harvest (Ruesch and Fox 1996). Commercial fishing districts and subdistrict locations are shown in Figure 2.

Age, sex and length information in conjunction with abundance data provides a basis for assessing yearly variations in production and effects of management strategies.

The pioneering work of Davis and Kissner (1969) in UCI provided a framework from which age, sex and length data collection began. Unfortunately in the early years (1964-78) the sample collection of commercial harvest and escapement data was sporadic and limited compared to the present. Information was published in annual technical reports from 1964 to 1978. Davis and Tarbox (1985) produced a compendium of information for the period 1964-1981 to summarize the yearly results. The series continued with the advent of stock separation studies in 1978 and has been in existence ever since (Bethe et al. 1980; Cross et al. 1981, 1982, 1983, 1985, 1987; Cross 1985; Waltemeyer 1989, 1990, 1991, 1993, 1995a, 1995b). The major emphasis has been on sampling sockeye salmon in the commercial harvests and escapements. However, since 1983 chinook, coho, and chum salmon sampling in key commercial harvests has been conducted.

This report is part of a continuing series. Specific objectives were: 1) document number of salmon harvested in selected commercial use fisheries; 2) report escapement numbers from the major river systems; and 3) estimate age, sex, and length composition of salmon in selected commercial harvests and escapements.

METHODS

Numerical Data

Commercial harvest statistics were compiled from ADF&G final fish ticket information.

Sockeye salmon escapement into Fish Creek was determined by observing fish migrating through a weir (C. Whitmore, ADF&G, Palmer, personal communication).

ADF&G personnel used Bendix Corporation² side-scanning sonar equipment to enumerate the adult salmon entering the Kenai, Kaslof, Crescent, and Yentna Rivers (Davis and King 1996).

² Use of a company's name does not constitute endorsement.

Sonar counts were apportioned to salmon species using species proportions from fish wheel catches, except at Kasilof where all counts are apportioned to sockeye salmon.

Chinook salmon escapement into the Kenai River was estimated using BioSonics² sonar equipment in the lower river (RM 8.5; Hammarstrom 1996)

Cook Inlet Aquaculture Association (CIAA) personnel monitored sockeye salmon escapements through weirs on Hidden, Packers and Lake Creeks (Cheltna Lake; G. Fandrei, CIAA, Soldotna, personal communication).

Age, Sex, and Size Data

Fish scales were taken from the left side of the salmon approximately two rows above the lateral line on the diagonal row that extends down from the posterior insertion of the dorsal fin to the anterior insertion of the anal fin (Koo 1955). One scale was collected from each sockeye and chum salmon. Because of the higher number of regenerated scales on coho and chinook, three scales were collected from each of these species. Scales were mounted on gum cards and impressions made in cellulose acetate as described by Clutter and Whitesel (1956).

Ages of salmon were determined by visual examination of scale impressions under moderate magnification (40X) using a microfiche viewer. Age was determined based upon criteria established by Mosher (1969) and Tobias et al. (1994). Ages were recorded in European notation (Koo 1962).

Sex and length information were recorded for all specimens sampled. Sex of the fish was determined by morphological characteristics. Length in millimeters was measured from mid-eye to fork-of-tail.

Age, sex and length compositions of the commercial catches were estimated using a stratified systematic random sampling design (Cochran 1977). A minimum sample size of 403 readable scales was defined for each species and strata to estimate simultaneously the proportion of each major age class in the harvest within five percent of the true proportion 90% of the time (Thompson 1987). A sample size of 500 fish per strata for sockeye salmon harvested in the commercial fisheries sampling was set to account for unreadable scales. For escapements a single sample size of 500 fish was defined to provide the same level of precision. Escapement samples were weighted over time by sampling a fixed proportion of fish captured by fish wheel each day.

The number of temporal and spatial strata selected for sampling differed among commercial fisheries, escapements and species. The number of temporal strata was set to detect changes in seasonal age composition. Definitions of spatial strata for commercial harvests were based on UCI management district or subdistrict designations. Frequency and priority of sampling was based on the historical harvest contribution of a fishery to the total UCI commercial harvest. Because the escapements were weighted through time no stratification was necessary.

RESULTS

A total of 1,750 chinook, 22,297 sockeye, 4,096 coho, and 1,278 chum salmon were sampled in selected UCI commercial gillnet harvests and escapements in 1995 (Table 1). Age, sex and length data along with harvest and escapement information are presented below.

Sockeye Salmon

Total Return

The minimum estimate of the 1995 commercial harvest and escapement of sockeye salmon to UCI was 4,125,386 fish (Table 2). Commercial harvests totaled 2,951,827 fish and escapements into the major river systems equaled 1,173,559 fish.

The following four major age classes made up 97.7% of the combined UCI commercial sockeye salmon harvests and escapements (Table 3):

<u>Age Class</u>	<u>%</u>	<u>Escapement & Harvest</u>	<u>Mean Length</u>
1.2	24.6	986,636	495 mm
1.3	32.0	1,285,863	567 mm
2.2	11.1	446,611	502 mm
2.3	30.0	1,204,586	575 mm

The predominant age class percentages, numbers and mean lengths of sockeye salmon in the UCI commercial harvest were:

<u>Age Class</u>	<u>%</u>	<u># Harvested</u>	<u>Mean Length</u>
1.2	21.3	604,145	501 mm
1.3	34.8	989,881	569 mm
2.2	10.8	308,369	506 mm
2.3	31.5	894,782	577 mm

The predominant age class percentages, numbers and mean lengths in the monitored UCI escapements were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
1.2	32.6	382,491	486 mm
1.3	25.2	295,982	562 mm
2.2	11.8	138,242	493 mm
2.3	26.4	309,804	569 mm

The female contributions among the major age classes ranged from 34% (Salamatof Beach) to 56% (drift) in the commercial harvests and from 49% (Yentna River) to 65% (Fish Creek) in the escapements (Table 3).

Exploitation rates among the major age classes ranged from 61% for age-1.2 fish to 77% for age-1.3 fish with an overall exploitation rate of 71% (Table 3).

Commercial Harvest by Fishery

The 1995 Central District drift gillnet harvest excluding Chinitna Bay was 1,773,281 fish (Table 4). This harvest represented 60.1% of the total UCI sockeye harvest. The average harvest from 1966-94 was 55.5% of the total UCI harvest. The major age class percentages, numbers, range of mean lengths, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u># Harvested</u>	<u>Length Range</u>	<u>Mean Length</u>
1.2	19.5	344,918	498-519 mm	506 mm
1.3	37.4	663,773	546-581 mm	567 mm
2.2	9.2	163,507	501-530 mm	511 mm
2.3	32.3	571,996	549-586 mm	576 mm

Age-1.3 fish contributed more than age-2.3 fish to each fishing period harvest through the middle of July. After July 21 age-2.3 fish contributed slightly more for the remainder of the season (Table 4; Figures 3 and 4). Age-1.2 fish were more abundant than age-2.2 fish in each fishing period harvest for the entire season (Table 4; Figures 5 and 6).

Female composition in the drift gillnet harvest ranged from 41.3% to 61.7% (Table 4).

The Cohoe/Ninilchik Beach set gillnet harvest was 413,046 fish and represented 14.0% of the total UCI sockeye salmon harvest (Table 5). Historically the Cohoe/Ninilchik fishery harvest averages 12.7% of the total UCI sockeye salmon harvest. The major age class percentages, numbers, range of mean lengths, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u># Harvested</u>	<u>Length Range</u>	<u>Mean Length</u>
1.2	27.5	113,369	478-501 mm	489 mm
1.3	24.8	102,380	546-577 mm	569 mm
2.2	17.3	71,232	490-507 mm	498 mm
2.3	29.3	120,943	542-581 mm	574 mm

Female composition in the Cohoe/Ninilchik Beach sockeye harvest ranged from 32.0% (10 July) to 60.0% (17-18 July; Table 5).

The Kalifonsky Beach set gillnet harvest, which historically averages 12.2% of the total UCI sockeye salmon harvest, represented 10.9% or 323,197 fish in 1995 (Table 6). The four major age class percentages, numbers, range of mean lengths, and mean lengths in the harvest were:

<u>Age Class</u>	<u>%</u>	<u># Harvested</u>	<u>Length Range</u>	<u>Mean Length</u>
1.2	25.2	81,538	489-498 mm	496 mm
1.3	26.1	84,495	551-579 mm	571 mm
2.2	16.0	51,816	492-502 mm	499 mm
2.3	31.3	101,295	549-587 mm	582 mm

Female composition in the Kalifonsky Beach harvest ranged from 31.6% (17-21 July) to 56.9% (29 July-14 August; Table 6).

The Salamatof Beach set gillnet harvest, which historically averages 11.6% of the total UCI sockeye salmon harvest, represented 7.6% or 224,973 fish in 1995 (Table 7). The four major age class percentages, numbers, range of mean lengths, and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u># Harvested</u>	<u>Length Range</u>	<u>Mean Length</u>
1.2	21.9	49,299	497-512 mm	506 mm
1.3	32.9	73,925	568-587 mm	578 mm
2.2	5.9	13,238	502-534 mm	524 mm
2.3	37.8	85,062	578-593 mm	588 mm

Female composition in the Salamatof Beach harvest ranged from 28.2% (10-14 July) to 36.6% (17-25 July; Table 7).

Of the three Upper Subdistrict beach fisheries, sockeye harvested in the Cohoe/Ninilchik Beach harvest were smallest in total mean length (537 mm) while sockeye in the Salamatof Beach harvest were the largest (563 mm).

Kalifonsky Beach sockeye salmon mean length was 544 mm. Trends in mean length were similar among the four major age classes and fisheries.

The Eastern Subdistrict sockeye salmon set gillnet harvest, which historically averages 1.5% of the total UCI sockeye salmon harvest, represented 0.8% in 1995. The major age classes were: age 1.2 - 36.1%, age 1.3 - 29.0%, age 2.2 - 18.9% and age 2.3 - 13.1% (Table 8). The overall mean length was 512 mm. Female composition in the harvest was 45.2%.

The General Subdistrict set gillnet harvest, which historically averages 2.6% of the total UCI sockeye salmon harvest, represented 2.9% in 1995. The majority of the harvest was represented by age-1.3 (68.2%), age-2.3 (14.5%), age-1.2 (7.7%) and age-2.2 (4.9%) fish (Table 9). The overall mean length of sockeye salmon was 564 mm. Females represented 51.2% of the harvest.

Escapement

A minimum of 1,173,559 sockeye salmon entered the major rivers and streams of UCI (Tables 2 and 10-17). The major sockeye salmon escapements were in the Kenai River (630,447 late run fish), the Kasilof River (204,935 fish), Crescent River (52,311 fish), Packers Creek (49,545 fish), Yentna River (121,220 fish), and Fish Creek (115,101 fish).

The Yentna River sonar indexed 346 chinook, 74,346 coho, 104,057 pink and 31,424 chum salmon (Table 2).

The predominant age classes in the total UCI sockeye escapement were age 1.2 (32.6%), age 1.3 (25.2%), age 2.2 (11.8%) and age 2.3 (26.4%; Table 3; Figure 7).

The Kenai River had an escapement of 630,447 sockeye salmon. The major age class percentages, numbers and mean lengths of these fish were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
1.2	31.9	201,001	489 mm
1.3	26.4	166,466	572 mm
2.2	6.6	41,617	513 mm
2.3	31.3	197,457	578 mm

The overall mean length of Kenai River sockeye was 539 mm. Females comprised 52% of the Kenai River escapement (Table 10).

Hidden Creek, a tributary of the Kenai River, had an escapement of 7,542 sockeye represented by age-1.2(63.3%), age-1.3 (12.4%), age-2.2 (20.6%) and age-2.3 (3.2%) fish. Female composition in Hidden Creek was 56% (Table 11).

Kasilof River escapement was 204,935 sockeye salmon with the following age class percentages, numbers and mean lengths:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
1.2	44.0	90,074	487 mm
1.3	15.5	31,770	538 mm
2.2	25.0	51,321	488 mm
2.3	15.3	31,421	541 mm

The overall mean length of Kasilof River escapement sockeye was 503 mm. Females composed 55.2% of the Kasilof River escapement (Tables 3 and 12).

Crescent River escapement of 52,311 sockeye salmon was composed of the following major age class percentages, numbers and mean lengths:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
1.2	9.2	4,816	489 mm
1.3	18.4	9,633	565 mm
2.2	9.4	4,913	505 mm
2.3	61.7	32,275	566 mm

The overall mean length of Crescent River escapement sockeye was 552 mm. Females composed 49.7% of the Crescent River escapement (Tables 3 and 13).

Packers Creek sockeye salmon escapement was 49,545 fish. The major age class percentages, numbers and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
1.2	8.3	4,121	454 mm
1.3	5.3	2,635	546 mm
2.2	35.5	17,580	469 mm
2.3	47.4	23,472	545 mm

The overall mean length of Packers Creek sockeye was 504 mm. Females composed 53.5% of the total escapement (Tables 3 and 14).

Yentna River sockeye salmon escapement was 121,220 fish. The major age class percentages, numbers and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
1.2	19.7	23,909	465 mm
1.3	51.3	62,166	556 mm
2.2	8.5	10,281	479 mm
2.3	11.6	14,106	559 mm

The overall mean length of Yentna River sockeye was 528 mm. Female composition in the escapement was 49.0% (Tables 3 and 15).

Chelatna Lake, a tributary of the Yentna River had an escapement of 20,104 sockeye. The major age classes of sockeye entering Chelatna Lake were age 1.3 (64.5%) and age 1.2 (26.9%; Table 16). Age composition between Chelatna Lake and Yentna River was statistically different ($\chi^2=55.0$, $P<0.05$, $df=3$) for ages 1.2, 1.3, 2.2, and 2.3. The overall mean length of Yentna River sockeye salmon was generally smaller (528 mm) compared to Chelatna Lake fish (551mm). Female composition was 58.5% of the Chelatna Lake escapement (Table 16).

Fish Creek sockeye had an escapement of 115,101 sockeye. The major age class percentages, numbers and mean lengths were:

<u>Age Class</u>	<u>%</u>	<u>Escapement</u>	<u>Mean Length</u>
1.2	50.9	58,570	483 mm
1.3	20.3	23,312	537 mm
2.2	10.9	12,530	487 mm
2.3	9.6	11,073	542 mm

The overall mean length of Fish Creek sockeye was 492 mm. Females comprised 64.6% of the escapement (Tables 3 and 17).

Chinook Salmon

The total commercial harvest of chinook salmon in 1995 was 17,857 fish (Table 2). The Upper Subdistrict set gillnet fishery harvest was 12,032 or 67.4% of the UCI harvest. The predominant age class percentages, numbers and mean lengths of Chinook salmon sampled from the Upper Subdistrict set gillnet harvest were:

<u>Age Class</u>	<u>%</u>	<u># Harvested</u>	<u>Mean Length</u>
1.2	22.4	2,689	646 mm
1.3	32.9	3,956	895 mm
1.4	35.0	4,205	1,026 mm
1.5	5.9	710	1,107 mm

Females accounted for 45.2% of the commercial harvest (Table 18).

Late run chinook salmon entering the Kenai River numbered 44,336 fish (Table 2). Other chinook populations (i.e. Susitna River) that are sampled by ADF&G personnel are accounted for in separate reports.

Coho Salmon

Coho salmon were sampled from three gillnet fisheries which represent 79.7% of the total UCI harvest (Table 19). Age-2.1 coho accounted for the bulk of the harvest:

	<u>Age 2.1</u>	<u># Harvested</u>	<u>Mean Length</u>
Central District drift gillnet	82.5%	193,167	542 mm
Upper Subdistrict set gillnet	77.7%	34,769	556 mm
General Subdistrict set gillnet	83.6%	64,653	550 mm

Age-1.1 (8.1%) and age-3.1 (9.8%) accounted for the remainder of the total monitored coho harvests (Tables 20-22). Mean lengths for all three age groups combined were, on average, larger in the Upper Subdistrict harvest (559 mm) than in the Central District drift (543 mm) or General Subdistrict harvests (550 mm; Table 19).

Females represented from 51% in the Central District drift gillnet harvest to 55% in the Upper Subdistrict set gillnet harvest (Table 19).

Chum Salmon

The total UCI commercial harvest of chum salmon in 1995 was 529,422 fish. Chum salmon were sampled from the commercial drift gillnet harvest of 468,224 fish, which made up 88% of the total commercial harvest of chum salmon. The age composition was primarily age-0.3 (90.2%) and age-0.4 (8.0%) fish (Table 23). Overall mean lengths for age-0.3 and age-0.4 chum salmon were 590 mm and 611 mm. For all periods combined, females composed 53.6%.

DISCUSSION

This is the eighteenth consecutive year of collecting sockeye salmon age and length composition data in UCI. Each year the age structure tends to vary depending on the run strength of a particular brood year, age class and salmon stock. The 1995 sockeye salmon total return of 4.1 million fish was the twelfth highest on record and approximately 200,000 fish higher than the long-term (1968-94) average. The actual sockeye total return age composition relative to the forecast was similar for age classes -2.2 and -2.3 fish. Deviations from forecast were observed in age classes 1.2 and 1.3 with a higher percentage of age-1.2 fish contributing to the Kenai River and Fish Creek returns, and

er percentage of age-1.3 fish contributing to all river systems with the greatest difference attributed to the Kenai River return.

Sockeye salmon male-to-female sex ratios in the commercial harvests and escapements were comparable to previous years. Females contributed slightly more than males in escapements overall.

Mean lengths of sockeye salmon were generally larger in most river systems compared to previous years with a noticeable size increase in Kenai River fish.

Chinook, coho, and chum salmon age and length compositions and sex ratios were generally all comparable to past years. In 1995, the chinook salmon commercial harvest of 17,857 fish was below the long-term (1954-94) average of 20,597 fish with age and length composition similar to past years. The coho salmon commercial harvest of 446,954 was nearly a third higher than the long-term average of 322,710 fish with similar age and length composition as in past years. Chum salmon commercial harvest of 529,422 fish was below the long-term mean of 605,822 fish but a shift in age composition was observed where 90% of the drift gillnet harvest was age 0.3. In the past, age-0.3 fish have averaged 68% of the commercial drift gillnet harvest. Length composition was also different compared to past years where age 0.3 fish were larger in mean size.

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Table 1. Number of salmon sampled from commercial harvests and escapements in Upper Cook Inlet, Alaska, in 1995.

Location ^a	Species			
	Chinook	Sockeye	Coho	Chum
Commercial Catch:				
<u>Central District</u>				
Drift		5,500	1,203	1,278
Upper Subdistrict ^b	1,750		1,257	
Salamatof Beach		2,000		
Kalifonsky Beach		2,500		
Cohoe/Ninilchik Beach		4,000		
Western Subdistrict ^c				
<u>Northern District</u>				
Eastern Subdistrict		1,000		
General Subdistrict		1,131	1,636	
Subtotal	1,750	16,131	4,096	1,278
Escapement:				
<u>Central District</u>				
Kenai River				
Mainstem late run ^d		1,740		
Hidden Creek ^e		803		
Kasilof River				
Mainstem ^f		750		
Crescent River		623		
Packers Creek ^g		627		
<u>Northern District</u>				
Susitna River				
Yentna River		692		
Chelatna Lake (Lake Creek) ^h		431		
Fish Creek ^g		500		
Subtotal		6,166		
Total	1,750	22,297	4,096	1,278

Table 1. (page 2 of 2)

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- ^a Specific locations not footnoted were sampled by Commercial Fisheries Management and Development (CFM&D) Division personnel, Alaska Department of Fish and Game ADF&G.
 - ^b Represents pooled samples from the Upper Subdistrict commercial set gillnet fisheries.
 - ^c Western Subdistrict was closed before any sampling could be done.
 - ^d This total represents samples collected on a daily basis and special samples taken through the season. The primary sample goal of 0.13% of the previous day's escapement (sonar count) was sampled for age composition and totalled 788.
 - ^e Samples collected by Cook Inlet Aquaculture Association (CIAA) personnel.
 - ^f This total represents samples collected on a daily basis and special samples taken through the season. The primary sample goal of 0.35% of the previous day's escapement (sonar count) was sampled for age composition and totalled 701.
 - ^g Samples collected by Sport Fish Division personnel, ADF&G.

Table 2. Commercial salmon harvests by area and gear type and sockeye escapements, Upper Cook Inlet, Alaska, in 1995.

Fishery	Chinook	Sockeye	Coho	Pink	Chum	Total
Commercial Harvest:						
A. Northern District Total	4,130	109,098	89,300	11,713	43,667	257,908
1. Northern District West	3,282	85,865	77,312	8,784	41,282	216,525
a. Trading Bay	383	4,406	9,674	543	1,677	16,683
b. Tyonek	311	13,546	24,417	1,970	10,800	51,044
c. Beluga	247-30	2,396	34,156	30,964	4,426	21,819
d. Susitna Flat	247-41	20	3,332	1,318	414	1,026
e. Pt. Mackenzie	247-42	50	4,920	2,928	414	1,700
f. Fire Island	247-43	117	6,028	6,012	945	3,242
g. Knik Arm	247-50	5	19,477	1,999	72	1,018
2. Northern District East	848	23,233	11,988	2,929	2,385	41,383
a. Pt. Possession	247-70	694	10,481	5,464	2,021	2,279
b. Birch Hill	247-80	113	5,014	2,980	569	74
c. Number 3 Bay	247-90	41	7,738	3,544	339	32
B. Central District Total	13,727	2,842,729	357,654	121,862	485,755	3,821,727
1. East Side Set Total	12,032	961,216	44,750	53,420	3,711	1,075,129
a. Salamatof	244-40	2,139	224,973	17,614	7,900	1,798
b. Kalifonsky Beach	244-30	4,358	323,197	12,142	7,291	596
d. Cohoe/Ninilchik		5,535	413,046	14,994	38,229	1,317
1. Cohoe	244-22	2,314	275,648	8,618	19,792	966
2. Ninilchik	244-21	3,221	137,398	6,376	18,437	351
2. West Side Set Total	859	19,444	22,821	949	2,662	46,735
a. Little Jack Slough	245-50	17	5,541	3,025	280	64
b. Polly Creek	245-40	78	9,041	3,125	296	216
c. Tuxedni Bay	245-30	758	3,746	5,778	314	2,130
d. Silver Salmon	245-20	6	1,116	10,893	59	252
3. Kustatan Total	198	8,421	9,759	280	440	19,098
a. Big River	245-55	188	4,497	3,629	44	8,369
b. West Foreland	245-60	10	3,924	6,130	236	429
4. Kalgan Island Total	40	78,551	35,587	1,996	784	116,958
a. West Side	246-10	33	49,274	24,081	1,279	632
b. East Side	246-20	7	29,277	11,506	717	152
5. Chinitna Bay Total	75	1,816	10,611	655	11,095	24,252
a. Set	245-10	4	1,224	3,264	585	9,934
b. Drift	245-10	71	592	7,347	70	1,161
6. Central District Set Total	13,133	1,068,856	116,181	57,230	17,531	1,272,931
7. Central District Drift Total	594	1,773,873	241,473	64,632	468,224	2,548,796
a. West Side	245-70,80,90	82	267,408	37,873	5,547	50,138
b. East Side	244-50,60,70	441	1,505,873	196,253	59,015	416,925
c. Chinitna Bay	245-10	71	592	7,347	70	1,161
Commercial Harvest Total	17,857	2,951,827	446,954	133,575	529,422	4,079,635
Escapement:						
Kenai River	44,336*	630,447				674,783
Kasilof River		204,935				204,935
Crescent River		52,311				52,311
Packers Creek		49,545				49,545
Yentna River*	346	121,220	74,346	104,057	31,424	331,393
Fish Creek		115,101				115,101
Escapement Total	44,682	1,173,559	74,346	104,057	31,424	1,428,068
Upper Cook Inlet Total	62,539	4,125,386	521,300	237,632	560,846	5,507,703

* Source: S. Hammarstrom, ADF&G, Soldotna, personal communication. Late run only.

* Chinook, coho, pink, and chum salmon escapements represent minimum indices of abundance only.

Table 3. Age, length and sex composition of sockeye salmon in selected commercial gillnet harvests and river escapements with overall exploitation rates by age. Upper Cook Inlet, Alaska, in 1995.

Fishery	Age Group													Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3		
COMMERCIAL CATCH															
Central District															
Central Drift															
Number	455		14,672	344,918	495	663,773	163,507		10,529	571,996	1,361	806	769	1,773,281	
Percent	.03		.83	19.45	.03	37.43	9.22		.59	32.26	.08	.05	.04	100.00	
Sample Size	2		37	1,092	1	1,777	517		21	1,431	5	3	1	4.887	
Mean Length ^a	451		576	506	431	567	511		605	576	535	585	508	553	
% Female			60	44		63	47		60	59	37	100	100	56	
Sample Size	2		37	1,092	1	1,777	517		21	1,431	5	3	1	4.887	
Cohoe/Ninilchik Beach															
Number	31		1,915	113,369		102,380	71,232		2,970	120,943	206			413,046	
Percent	.01		.46	27.45		24.79	17.25		.72	29.28	.05			100.00	
Sample Size	1		9	1,136		867	672		18	927	3			3.633	
Mean Length	441		579	489		569	498		624	574	534			537	
% Female	100		37	43		50	51		39	51	18			48	
Sample Size	1		9	1,136		867	672		18	927	3			3.633	
Kalifonsky Beach															
Number		946	81,538		84,495	51,816		1,697	101,295	344	1,066			323,197	
Percent		.29	25.23		26.14	16.03		.53	31.34	.11	.33			100.00	
Sample Size		6	641		565	351		10	644	3	5			2.225	
Mean Length		568	496		571	499		629	582	526	588			544	
% Female		50	37		39	41		28	45	42	51			41	
Sample Size		6	641		565	351		10	644	3	5			2.225	

-Continued-

Table 3. (page 2 of 5)

Fishery	Age Group													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
COMMERCIAL CATCH (continued)														
Salamatof Beach														
Number	24	964	49,299		73,925	13,238		2,214	85,062		247	224,973		
Percent	.01	.43	21.91		32.86	5.88		.98	37.81		.11	100.00		
Sample Size	3	7	489		530	191		13	550		1	1,784		
Mean Length	357	570	506		578	524		626	588		559	563		
% Female	71	25	28		35	36		22	35			34		
Sample Size	3	7	489		530	191		13	550		1	1,784		
Northern District														
Eastern Subdistrict														
Number	110	164	8,378	295	6,740	4,393		74	3,045	34		23,233		
Percent	.47	.71	36.06	1.27	29.01	18.91		.32	13.11	.15		100.00		
Sample Size	4	6	333	9	237	154		3	107	1		854		
Mean Length	333	553	482	367	547	490		627	564	527		512		
% Female		12	47		43	48		27	48	100		45		
Sample Size	4	6	333	9	237	154		3	107	1		854		
General Subdistrict														
Number	352	3,593	6,643		58,568	4,183		85	12,441			85,865		
Percent	.41	4.18	7.74		68.21	4.87		.10	14.49			100.00		
Sample Size	4	41	77		670	48		1	142			983		
Mean Length	488	585	509		572	520		618	568			564		
% Female	50	46	42		53	46			50			51		
Sample Size	4	41	77		670	48		1	142			983		

-Continued-

Table 3. (page 3 of 5)

Fishery	Age Group														Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total	
Commercial Catch Total															
Number	838	134	22.254	604.145	790	989.881	308.369		17.569	894.782	1.945	1.872	1.016	2,843.595 ^b	
Percent	.03	.00	.78	21.25	.03	34.81	10.84		.62	31.47	.07	.07	.04	100.00	
Sample Size	7	7	106	3.768	10	4.646	1.933		66	3.801	12	8	2	14,366	
Mean Length	466	337	577	501	407	569	506		613	577	533	587	520	550	
% Female	25	13	53	41		56	47		48	54	37	72	76	51	
Sample Size	7	7	106	3.768	10	4.646	1.933		66	3.801	12	8	2	14,366	
ESCAPEMENT															
Central District															
Kenai River															
Number	1,770	2,656	201.001	15.053	166.466	41.617		2,656	197.457		1,771		630.447		
Percent	.28	.42	31.88	2.39	26.40	6.60		.42	31.32		.28		100.00		
Sample Size	2	3	227	17	188	47		3	223		2		712		
Mean Length	370	564	489	400	572	513		597	578		605		539		
% Female	50	67	49	59	57	51		100	49				52		
Sample Size	2	3	227	17	188	47		3	223		2		712		
Kasilof River															
Number	349		90.074		31.770	51.321			31.421				204,935		
Percent	.17		43.95		15.50	25.04			15.33				100.00		
Sample Size	1		258		91	147			90				587		
Mean Length	355		487		538	488			541				503		
% Female			55		54	59			53				55		
Sample Size	1		258		91	147			90				587		

-Continued-

Table 3. (page 4 of 5)

Fishery	Age Group													Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3		
ESCAPEMENT (continued)															
Crescent River															
Number	193		4,816	96	9,633	4,913		289	32,275		96	52,311			
Percent	.37		9.21	.18	18.41	9.39		.55	61.70		.18	100.00			
Sample Size	2		50	1	100	51		3	335		1	543			
Mean Length	355		489	353	565	505		589	566		558	552			
% Female			32		60	22		67	54			50			
Sample Size	2		50	1	100	51		3	335		1	543			
Packers Creek															
Number		4,121	1,617	2,635	17,580	108		23,472		12	49,545				
Percent		8.32	3.26	5.32	35.48	.22		47.38		.02	100.00				
Sample Size		40	15	28	188	1		354		1	627				
Mean Length		454	348	546	469	350		545		510	504				
% Female		13	40	62	47			66		100	53				
Sample Size		40	15	28	188	1		354		1	627				
Northern District															
Yentna River															
Number	2,630	956	6,216	23,909	239	62,166	10,281		478	14,106	239		121,220		
Percent	2.17	.79	5.13	19.72	.20	51.28	8.48		.39	11.64	.20		100.00		
Sample Size	11	4	26	100	1	260	43		2	59	1		507		
Mean Length	435	393	563	465	575	556	479		527	559	473		528		
% Female	9		54	42		52	47			58	100		49		
Sample Size	11	4	26	100	1	260	43		2	59	1		507		

-Continued-

Table 3. (page 5 of 5)

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Fishery	Age Group													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
Fish Creek														
Number	7,868		58,570	1,166	23,312	12,530			11,073	291		291		115,101
Percent	6.84		50.89	1.01	20.25	10.89			9.62	.25		.25		100.00
Sample Size	27		201	4	80	43			38	1		1		395
Mean Length	369		483	395	537	487			542	470		580		492
% Female	44		67	50	59	72			71	100				65
Sample Size	27		201	4	80	43			38	1		1		395
Escapement Total														
Number	2,630	11,136	8,872	382,491	18,171	295,982	138,242	108	3,423	309,804	530	1,783	387	1,173,559
Percent	.22	.95	.76	32.59	1.55	25.22	11.78	.01	.29	26.40	.05	.15	.03	100.00
Sample Size	11	36	29	876	38	747	519	1	8	1,099	2	3	2	3,371
Mean Length	435	370	563	486	397	562	493	350	586	569	471	604	575	526
% Female	9	39	58	52	56	56	54		83	52	100	1		53
Sample Size	11	36	29	876	38	747	519	1	8	1,099	2	3	2	3,371
Upper Cook Inlet Total														
Number	3,468	11,270	31,126	986,636	18,961	1,285,863	446,611	108	20,992	1,204,586	2,475	3,655	1,403	4,017,154
Percent	.09	.28	.77	24.56	.47	32.01	11.12	.00	.52	29.99	.06	.09	.03	100.00
Sample Size	18	43	135	4,644	48	5,393	2,452	1	74	4,900	14	11	4	17,737
Mean Length	442	370	573	495	398	567	502	350	609	575	520	595	535	543
% Female	13	39	55	46	53	56	49		54	53	50	37	55	52
Sample Size	18	43	135	4,644	48	5,393	2,452	1	74	4,900	14	11	4	17,737
Exploitation Rate														
Percent	24.16	1.19	71.50	61.23	4.17	76.98	69.05		83.69	74.28	78.59	51.22	72.42	70.79

^a Mean length in mm.^b Total Upper Cook Inlet harvest was 2,951,827. Harvests not accounted for and no available age information included the Western (19,444 fish), Kustatan (8,421 fish), Kalgin Island (78,551 fish), and Chinitna Bay (1,816 fish) Subdistricts.

Table 4. Age, sex and length composition of sockeye salmon in the Central District commercial drift gillnet harvest,
Upper Cook Inlet, Alaska, in 1995.

	Age Group											
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 1: 26 June^a												
Males		609		527	198		308					1,642
Percent		20.05		17.35	6.52		10.14					54.05
Sample Size		89		77	29		45					240
Mean Length ^b		502		559	511		555					531
Std. Error		2		3	5		4					1
Sample Size		89		77	29		45					240
Females		7	322		561	212		294				1,396
Percent		0.23	10.60		18.47	6.98		9.68				45.95
Sample Size		1	47		82	31		43				204
Mean Length		573	504		551	520		547				535
Std. Error		3		2	5		3					2
Sample Size		1	47		82	31		43				204
Both Sexes		7	931		1,088	410		602				3,038
Percent		0.23	30.65		35.81	13.50		19.82				100.00
Sample Size		1	136		159	60		88				444
Mean Length		573	502		555	516		551				533
Std. Error		2		2	4		3					1
Sample Size		1	136		159	60		88				444

-Continued-

Table 4. (page 2 of 12)

	Age Group											
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 2: 30 June*												
Males	197	4,130		3,688	1,869		3,147	49				13,080
Percent	0.88	18.54		16.56	8.39		14.13	0.22				58.72
Sample Size	4	84		75	38		64	1				266
Mean Length	558	499		546	499		551	497				526
Std. Error	26	2		3	5		3					2
Sample Size	4	84		75	38		64	1				266
Females	98	1,328		3,836	983		2,950					9,195
Percent	0.44	5.96		17.22	4.41		13.24					41.28
Sample Size	2	27		78	20		60					187
Mean Length	514	504		545	506		547					535
Std. Error	9	4		3	6		3					2
Sample Size	2	27		78	20		60					187
Both Sexes	295	5,458		7,524	2,852		6,097	49				22,275
Percent	1.32	24.50		33.78	12.80		27.37	0.22				100.00
Sample Size	6	111		153	58		124	1				453
Mean Length	543	500		546	502		549	497				530
Std. Error	18	2		2	4		2					1
Sample Size	6	111		153	58		124	1				453

-Continued-

Table 4. (page 3 of 12)

	Age Group											
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 3: 3 July												
Males	8,338		7,131		3,620		110		4,059		23,258	
Percent	17.20		14.71		7.47		0.23		8.37		47.96	
Sample Size	76		65		33		1		37		212	
Mean Length	509		561		504		621		560		533	
Std. Error	3		3		4				5		2	
Sample Size	76		65		33		1		37		212	
Females	6,253		8,886		4,279		5,814				25,232	
Percent	12.90		18.33		8.82		11.99				52.04	
Sample Size	57		81		39				53		230	
Mean Length	504		548		506		550				530	
Std. Error	3		3		4				4		2	
Sample Size	57		81		39		53				230	
Both Sexes	14,591		16,017		7,899		110		9,873		48,490	
Percent	30.09		33.03		16.29		0.23		20.36		100.00	
Sample Size	133		146		72		1		90		442	
Mean Length	507		554		505		621		554		532	
Std. Error	2		2		3				3		1	
Sample Size	133		146		72		1		90		442	

-Continued-

Table 4. (page 4 of 12)

	Age Group											
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 4: 7 July												
Males	989	43,518		495	27,199	15,331		20,276				107,808
Percent	0.44	19.34		0.22	12.09	6.81		9.01				47.91
Sample Size	2	88		1	55	31		41				218
Mean Length	570	503		431	553	506		548				525
Std. Error	32	2			6	4		5				2
Sample Size	2	88		1	55	31		41				218
Females	495	31,156			50,936	9,891		24,727				117,205
Percent	0.22	13.85			22.64	4.40		10.99				52.09
Sample Size	1	63			103	20		50				237
Mean Length	538	502			553	510		555				536
Std. Error		4			3	8		4				2
Sample Size	1	63			103	20		50				237
Both Sexes	1,484	74,674		495	78,135	25,222		45,003				225,013
Percent	0.66	33.19		0.22	34.72	11.21		20.00				100.00
Sample Size	3	151		1	158	51		91				455
Mean Length	559	503		431	553	508		552				531
Std. Error	32	2			3	4		3				1
Sample Size	3	151		1	158	51		91				455

-Continued-

Table 4. (page 5 of 12)

Sample Period	5: 10 July ^c	Age Group							Total			
		0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3
Males												
Percent	26.777	11.87	54	518	3	54	32,232	10,413	496	19,339	89,257	
Sample Size							14.29	4.62	0.22	8.57	39,56	
Mean Length							65	21	1	39	180	
Std. Error							576	512	641	589	555	
Sample Size							4	5	5	5	2	
Females												
Percent	2,479	19,339	8.57	578	5	5	66,447	15,372	32,727	136,364		
Sample Size			39	515	4	39	29,45	6,81	14,51	60,44		
Mean Length							134	31	31	66	275	
Std. Error							567	518	571	571	555	
Sample Size							2	4	3	3	1	
Both Sexes												
Percent	2,479	46,116	20.44	578	5	5	98,679	25,785	496	52,066	225,621	
Sample Size			93	517	2	93	43,74	11,43	0.22	23,08	100,00	
Mean Length							199	52	1	105	455	
Std. Error							570	516	641	578	555	
Sample Size							2	3	3	3	1	
							199	52	1	105	455	

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Table 4. (page 6 of 12)

	Age Group											
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 6: 14 July^a												
Males	45		3,892		2,127	1,267	45	2,443	45		9,864	
Percent	0.23		20.24		11.06	6.59	0.23	12.70	0.23		51.29	
Sample Size	1		86		47	28	1	54	1		218	
Mean Length	474		508		568	502	590	570	491		536	
Std. Error			3		5	5		5			2	
Sample Size	1		86		47	28	1	54	1		218	
Females			2,579		3,033	1,538		2,217			9,367	
Percent			13.41		15.77	8.00		11.53			48.71	
Sample Size			57		67	34		49			207	
Mean Length			500		560	512		557			535	
Std. Error			4		3	4		4			2	
Sample Size			57		67	34		49			207	
Both Sexes	45		6,471		5,160	2,805	45	4,660	45		19,231	
Percent	0.23		33.65		26.83	14.59	0.23	24.23	0.23		100.00	
Sample Size	1		143		114	62	1	103	1		425	
Mean Length	474		505		563	507	590	564	491		535	
Std. Error			2		3	3		3			1	
Sample Size	1		143		114	62	1	103	1		425	

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Table 4. (page 7 of 12)

	Age Group											
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 7: 17 July^c												
Males	1,035	47,608		61,062	28,979	1,035	64,167					203,886
Percent	0.22	10.29		13.20	6.26	0.22	13.87					44.07
Sample Size	1	46		59	28	1	62					197
Mean Length	627	505		574	497	572	582					550
Std. Error		5		5	5		4					2
Sample Size	1	46		59	28	1	62					197
Females	1,035	40,363		106,601	17,594	2,070	91,076					258,739
Percent	0.22	8.72		23.04	3.80	0.45	19.69					55.93
Sample Size	1	39		103	17	2	88					250
Mean Length	570	489		561	508	599	567					548
Std. Error		5		2	6	10	2					2
Sample Size	1	39		103	17	2	88					250
Both Sexes	2,070	87,971		167,663	46,573	3,105	155,243					462,625
Percent	0.45	19.02		36.24	10.07	0.67	33.56					100.00
Sample Size	2	85		162	45	3	150					447
Mean Length	599	498		566	501	590	573					549
Std. Error		3		2	4	10	2					1
Sample Size	2	85		162	45	3	150					447

-Continued-

Table 4. (page 8 of 12)

	Age Group											
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 8: 21 July^c												
Males	2,306	27,666		36,120	10,759	769	51,489	769				129,878
Percent	0.68	8.16		10.66	3.17	0.23	15.19	0.23				38.32
Sample Size	3	36		47	14	1	67	1				169
Mean Length	573	519		582	512	645	595	550				568
Std. Error	11	5		4	9		4					2
Sample Size	3	36		47	14	1	67	1				169
Females	769	23,824		82,999	12,296	3,074	85,304			769	209,035	
Percent	0.23	7.03		24.49	3.63	0.91	25.17			0.23	61.68	
Sample Size	1	31		108	16	4	111			1	272	
Mean Length	570	500		567	525	599	573			508	560	
Std. Error	4			2	7	8	2				2	
Sample Size	1	31		108	16	4	111			1	272	
Both Sexes	3,075	51,490		119,119	23,055	3,843	136,793	769		769	338,913	
Percent	0.91	15.19		35.15	6.80	1.13	40.36	0.23		0.23	100.00	
Sample Size	4	67		155	30	5	178	1		1	441	
Mean Length	572	510		572	519	608	581	550		508	563	
Std. Error	11	3		2	6	8	2				1	
Sample Size	4	67		155	30	5	178	1		1	441	

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Table 4. (page 9 of 12)

Sample Period	9: 24 July ^a	Age Group							Total	
		0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	
Males										
Percent	-	925	11,404			28,049	4,932	308	19,110	64,728
Sample Size		0.69	8.54			21.02	3.70	0.23	14.32	48.50
Mean Length		3	37			91	16	1	62	210
Std. Error		604	516			578	519	608	587	566
Sample Size		9	4			3	3	6	3	2
Females		3	37			91	16	1	62	210
Percent		1,541	8,630			28,357	4,315	308	25,275	68,734
Sample Size		1.15	6.47			21.25	3.23	0.23	18.94	51.50
Mean Length		5	28			92	14	1	82	223
Std. Error		570	504			560	526	601	569	554
Sample Size		6	5			3	8	3	3	2
Both Sexes		5	28			92	14	1	82	223
Percent		2,466	20,034			56,406	9,247	616	44,385	133,462
Sample Size		1.85	15.01			42.26	6.93	0.46	33.26	100.00
Mean Length		8	65			183	30	2	144	433
Std. Error		583	511			569	523	605	577	560
Sample Size		5	3			2	5	2	2	1
		8	65			183	30	2	144	433

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Table 4. (page 10 of 12)

	Age Group											
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 10: 25 - 28 July^f												
Males	410	410	13,524		27.048	6.147	410	30,326				78,275
Percent	0.22	0.22	7.32		14.63	3.33	0.22	16.41				42.35
Sample Size	1	1	33		66	15	1	74				191
Mean Length	448	582	517		584	525	604	596				572
Std. Error			6		4	7		3				2
Sample Size	1	1	33		66	15	1	74				191
Females		1,639	12,704		42.621	7.787	410	41,391				106,552
Percent		0.89	6.87		23.06	4.21	0.22	22.39				57.65
Sample Size		4	31		104	19	1	101				260
Mean Length		563	511		563	515	606	572				557
Std. Error		4	5		2	5		2				1
Sample Size		4	31		104	19	1	101				260
Both Sexes	410	2,049	26,228		69.669	13.934	820	71,717				184,827
Percent	0.22	1.11	14.19		37.69	7.54	0.44	38.80				100.00
Sample Size	1	5	64		170	34	2	175				451
Mean Length	448	566	514		571	519	605	582				563
Std. Error		4	4		2	4		2				1
Sample Size	1	5	64		170	34	2	175				451

-Continued-

Table 4. (page 11 of 12)

	Age Group											
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Sample Period 11: 29 July - 28 August⁹												
Males	6,224		23,152		2,987		996		22,654			56,013
Percent	5.67		21.09		2.72		0.91		20.63			51.02
Sample Size	25		93		12		4		91			225
Mean Length	520		588		534		618		597			582
Std. Error	5		3		8		14		3			2
Sample Size	25		93		12		4		91			225
Females	747	4.730		21,161		2,738		498		22,903		498
Percent	0.68	4.31		19.27		2.49		0.45		20.86		0.45
Sample Size	3	19		85		11		2		92		2
Mean Length	575	517		572		526		606		575		584
Std. Error	10	5		2		6		2		32		3
Sample Size	3	19		85		11		2		92		2
Both Sexes	747	10.954		44,313		5,725		1,494		45,557		498
Percent	0.68	9.98		40.36		5.21		1.36		41.50		0.45
Sample Size	3	44		178		23		6		183		2
Mean Length	575	519		581		530		614		586		584
Std. Error	10	3		2		5		14		2		3
Sample Size	3	44		178		23		6		183		2

-Continued-

Table 4. (page 12 of 12)

	Age Group											
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
All Periods Combined:												
Males	455	5,862	193,690	495	248,335	86,502	4,169	237,318	863			777,689
Percent	0.03	0.33	10.92	0.03	14.00	4.88	0.24	13.38	0.05			43.86
Sample Size	2	14	654	1	740	265	11	636	3			2,326
Mean Length	451	587	511	431	575	507	612	585	544			555
Std. Error		9	2		2	2	14	2				1
Sample Size	2	14	654	1	740	265	11	636	3			2,326
Females		8,810	151,228		415,438	77,005	6,360	334,678	498	806	769	995,592
Percent		0.50	8.53		23.43	4.34	0.36	18.87	0.03	0.05	0.04	56.14
Sample Size		23	438		1,037	252	10	795	2	3	1	2,561
Mean Length		569	501		562	515	600	569	521	585	508	552
Std. Error		3	2		1	2	6	1	32	3	3	1
Sample Size		23	438		1,037	252	10	795	2	3	1	2,561
Both Sexes	455	14,672	344,918	495	663,773	163,507	10,529	571,996	1,361	806	769	1,773,281 ^b
Percent	0.03	0.83	19.45	0.03	37.43	9.22	0.59	32.26	0.08	0.05	0.04	100.00
Sample Size	2	37	1,092	1	1,777	517	21	1,431	5	3	1	4,887
Mean Length	451	576	506	431	567	511	605	576	535	585	508	553
Std. Error		4	1		1	2	6	1	32	3	3	1
Sample Size	2	37	1,092	1	1,777	517	21	1,431	5	3	1	4,887

^a All areas of Central District open except within 2 nautical miles of Kenai Peninsula shoreline.

^b Mean length in mm.

^c All areas of Central District open except west of 152 degrees 25 minutes West Longitude (approximate longitude of Redoubt Point).

^d 3 nautical mile corridor south of Colliers Dock.

^e Central District open east of 152 degrees 25 minutes West Longitude, south of northern tip of Kalgan Island or in Upper Subdistrict south of Colliers Dock within 3 nautical miles of Kenai Peninsula shoreline.

^f Upper Subdistrict open south of Colliers Dock and within 3 nautical miles of the Kenai Peninsula shoreline.

^g The majority of drift gillnet harvests were represented by district-wide openings.

^h Total does not include the Chinitna Bay Subdistrict harvest of 592 fish for a grand total of 1,773,873 fish.

Table 5. Age, sex and length composition of sockeye salmon in the Cohoe/Ninilchik Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 1995.

	Age Group								
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	Total
Sample Period 1: 3 July									
Males	4,086	1,951	994		1,289	37	8,357		
Percent	24.77	11.83	6.03		7.82	0.22	50.67		
Sample Size	111	53	27		35	1	227		
Mean Length ^a	492	558	498		542	488	516		
Std. Error	2	4	6		5		2		
Sample Size	111	53	27		35	1	227		
Females	3,349	2,246	1,436		1,068	37	8,136		
Percent	20.31	13.62	8.71		6.48	0.22	49.33		
Sample Size	91	61	39		29	1	221		
Mean Length	487	545	497		543	554	513		
Std. Error	2	3	4		5		2		
Sample Size	91	61	39		29	1	221		
Both Sexes	7,435	4,197	2,430		2,357	74	16,493		
Percent	45.08	25.45	14.73		14.29	0.45	100.00		
Sample Size	202	114	66		64	2	448		
Mean Length	490	551	498		542	521	514		
Std. Error	2	3	3		3		1		
Sample Size	202	114	66		64	2	448		

-Continued-

Table 5. (page 2 of 9)

	Age Group								
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	Total
Sample Period 2: 7 July									
Males	2.841	1.341	1.245		1.500				6,927
Percent	18.86	8.90	8.26		9.96				45.97
Sample Size	89	42	39		47				217
Mean Length	486	548	492		544				512
Std. Error	2	4	4		4				2
Sample Size	89	42	39		47				217
Females	2.107	2.426	1.596		2.011				8,140
Percent	13.98	16.10	10.59		13.35				54.03
Sample Size	66	76	50		63				255
Mean Length	483	549	495		545				520
Std. Error	3	2	3		3				1
Sample Size	66	76	50		63				255
Both Sexes	4,948	3,767	2,841		3,511				15,067
Percent	32.84	25.00	18.86		23.30				100.00
Sample Size	155	118	89		110				472
Mean Length	485	549	494		544				516
Std. Error	2	2	3		3				1
Sample Size	155	118	89		110				472

-Continued-

Table 5. (page 3 of 9)

	Age Group								
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	Total
Sample Period 3: 10 July									
Males		3,305		1,868		2,156		1,408	8,737
Percent		25.67		14.51		16.74		10.94	67.85
Sample Size		115		65		75		49	304
Mean Length		483		543		493		544	508
Std. Error		2		3		3		4	1
Sample Size		115		65		75		49	304
Females		1,495		719		862		1,063	4,139
Percent		11.61		5.58		6.69		8.26	32.15
Sample Size		52		25		30		37	144
Mean Length		484		554		487		546	513
Std. Error		3		5		3		5	2
Sample Size		52		25		30		37	144
Both Sexes		4,800		2,587		3,018		2,471	12,876
Percent		37.28		20.09		23.44		19.19	100.00
Sample Size		167		90		105		86	448
Mean Length		483		546		491		545	510
Std. Error		2		3		2		3	1
Sample Size		167		90		105		86	448

-Continued-

Table 5. (page 4 of 9)

	Sample Period	4: 14 July	Age Group						Total
			0.2	0.3	1.2	1.3	2.2	1.4	
Males			2,794	1,522		1,770		62	1,522
Percent			20.93	11.40		13.26		0.46	11.40
Sample Size			90	49		57		2	57
Mean Length			485	548		496		619	49
Std. Error			3	4		3			549
Sample Size			90	49		57		2	5
Females			2,048	1,087		1,522		49	247
Percent			15.34	8.14		11.40			514
Sample Size			66	35		49			2
Mean Length			484	544		488			247
Std. Error			3	5		3			514
Sample Size			66	35		49			2
Both Sexes			4,842	2,609		3,292		62	7,670
Percent			36.26	19.54		24.66		0.46	57.44
Sample Size			156	84		106		2	100.00
Mean Length			484	546		492		619	430
Std. Error			2	3		2			511
Sample Size			156	84		106		2	1
								81	430

-Continued-

Table 5. (page 5 of 9)

	Age Group								
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	Total
Sample Period 5: 17 - 18 July^b									
Males		18,904		3,042	10,430		8,040		40,416
Percent		18.75		3.02	10.34		7.97		40.09
Sample Size		87		14	48		37		186
Mean Length		473		574	493		577		506
Std. Error		3		13	4		6		2
Sample Size		87		14	48		37		186
Females	217	20,861	12,168	13,689	217	13,255		60,407	
Percent	0.22	20.69	12.07	13.58	0.22	13.15		59.91	
Sample Size	1	96	56	63	1	61		278	
Mean Length	589	481	555	487	619	568		517	
Std. Error		3	4	3		4		2	
Sample Size	1	96	56	63	1	61		278	
Both Sexes	217	39,765	15,210	24,119	217	21,295		100,823	
Percent	0.22	39.44	15.09	23.92	0.22	21.12		100.00	
Sample Size	1	183	70	111	1	98		464	
Mean Length	589	478	558	490	619	571		513	
Std. Error		2	4	2		3		1	
Sample Size	1	183	70	111	1	98		464	

-Continued-

Table 5. (page 6 of 9)

	Age Group								
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	Total
Sample Period 6: 19 - 21 July									
Males	706	12,717	15,014	7,241	353	13,600			49,631
Percent	0.87	15.76	18.60	8.97	0.44	16.85			61.49
Sample Size	4	72	85	41	2	77			281
Mean Length	584	501	581	507	596	588			552
Std. Error	5	3	4	5	42	4			2
Sample Size	4	72	85	41	2	77			281
Females		5,299	7,241	6,358	177	12,010			31,085
Percent		6.56	8.97	7.88	0.22	14.88			38.51
Sample Size		30	41	36	1	68			176
Mean Length		502	570	508	615	572			547
Std. Error		5	4	4		4			2
Sample Size		30	41	36	1	68			176
Both Sexes	706	18,016	22,255	13,599	530	25,610			80,716
Percent	0.87	22.32	27.57	16.85	0.66	31.73			100.00
Sample Size	4	102	126	77	3	145			457
Mean Length	584	501	577	507	602	581			550
Std. Error	5	3	3	3	42	3			1
Sample Size	4	102	126	77	3	145			457

-Continued-

Table 5. (page 7 of 9)

	Age Group								
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	Total
Sample Period 7: 24 - 28 July									
Males	496	15,127		16,368	5,952	744	15,375		54,062
Percent	0.44	13.29		14.38	5.23	0.65	13.51		47.49
Sample Size	2	61		66	24	3	62		218
Mean Length	590	497		586	497	647	586		552
Std. Error	4	5		4	6	13	4		2
Sample Size	2	61		66	24	3	62		218
Females	496	8,432		19,591	7,688	496	23,063		59,766
Percent	0.44	7.41		17.21	6.75	0.44	20.26		52.51
Sample Size	2	34		79	31	2	93		241
Mean Length	558	501		567	511	612	571		552
Std. Error	4	4		3	5	4	3		2
Sample Size	2	34		79	31	2	93		241
Both Sexes	992	23,559		35,959	13,640	1,240	38,438		113,828
Percent	0.87	20.70		31.59	11.98	1.09	33.77		100.00
Sample Size	4	95		145	55	5	155		459
Mean Length	574	498		576	505	633	577		552
Std. Error	3	3		3	4	8	2		1
Sample Size	4	95		145	55	5	155		459

-Continued-

Table 5. (page 8 of 9)

	Age Group						Total
	0.2	0.3	1.2	1.3	2.2	1.4	
Sample Period 8: 29 July - 14 August							
Males							
Percent	5,265	10,399	5,134	658	16,189	132	37,777
Sample Size	8,79	17,36	8,57	1,10	27,03	0,22	63,08
Mean Length	40	79	39	5	123	1	287
Std. Error	504	577	498	631	585	541	560
Sample Size	5	4	5	12	3	2	2
Females							
Percent	4,739	5,397	3,159	263	8,556	1	287
Sample Size	7,91	9,01	5,27	0,44	14,29		
Mean Length	36	41	24	2	65		
Std. Error	491	557	500	613	566		
Sample Size	4	4	6	6	4		
Both Sexes							
Percent	10,004	15,796	8,293	921	24,745	132	59,891
Sample Size	16,70	26,37	13,85	1,54	41,32	0,22	100,00
Mean Length	76	120	63	7	188	1	455
Std. Error	498	571	498	626	578	541	552
Sample Size	3	3	4	7	3	2	2
	76	120	63	188	1		455

-Continued-

Table 5. (page 9 of 9)

	Age Group						Total	
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2
All Periods Combined:								
Males	1,202	65,039	51,505	34,922	1,817	58,923	169	213,577
Percent	0.29	15.75	12.47	8.45	0.44	14.27	0.04	51.71
Sample Size	6	665	453	350	12	479	2	1.967
Mean Length	586	489	577	497	630	581	529	539
Std. Error	3	2	2	2	11	2		
Sample Size	6	665	453	350	12	479	2	1
Females	713	48,330	50,875	36,310	1,153	62,020	37	199,469
Percent	0.17	11.70	12.32	8.79	0.28	15.02	0.01	48.29
Sample Size	1	471	414	322	6	448	1	1,666
Mean Length	567	489	561	498	614	568	554	534
Std. Error	4	2	2	2	3	2		
Sample Size	1	471	414	322	6	448	1	1
Both Sexes	1,915	113,369	102,380	71,232	2,970	120,943	206	413,046
Percent	0.46	27.45	24.79	17.25	0.72	29.28	0.05	100.00
Sample Size	1	9	1,136	867	18	927	3	3,633
Mean Length	579	489	569	498	624	574	534	537
Std. Error	3	1	1	1	8	1		
Sample Size	1	9	1,136	867	18	927	3	3,633

^a Mean length in mm.^b Open area was within 1/2 nautical mile of Kenai Peninsula shoreline.

Table 6. Age, sex and length composition of sockeye salmon in the Kalifonsky Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 1995.

	Age Group								
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	Total
Sample Period 1: 3 - 7 July									
Males	1,897	1,471	725		1,471				5,564
Percent	20.50	15.90	7.84		15.90				60.14
Sample Size	89	69	34		69				261
Mean Length ^a	493	550	491		550				523
Std. Error	2	4	4		4				2
Sample Size	89	69	34		69				261
Females	1,258	917	554		959				3,688
Percent	13.60	9.91	5.99		10.37				39.86
Sample Size	59	43	26		45				173
Mean Length	490	552	497		548				522
Std. Error	3	4	5		3				2
Sample Size	59	43	26		45				173
Both Sexes	3,155	2,388	1,279		2,430				9,252
Percent	34.10	25.81	13.82		26.26				100.00
Sample Size	148	112	60		114				434
Mean Length	492	551	494		549				522
Std. Error	2	3	3		2				1
Sample Size	148	112	60		114				434

-Continued-

Table 6. (page 2 of 6)

	Age Group								
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	Total
Sample Period 2: 10 - 14 July									
Males	1,271	680	696	30	680	15	15	15	3,387
Percent	18.15	9.71	9.94	0.43	9.71	0.21	0.21	0.21	48.38
Sample Size	84	45	46	2	45	1	1	1	224
Mean Length	490	554	492	589	556	564	662	662	518
Std. Error	3	3	4	18	5				2
Sample Size	84	45	46	2	45	1	1	1	224
Females	1,452	756	786		620				3,614
Percent	20.74	10.80	11.23		8.86				51.62
Sample Size	96	50	52		41				239
Mean Length	488	548	495		550				513
Std. Error	3	3	3		5				2
Sample Size	96	50	52		41				239
Both Sexes	2,723	1,436	1,482	30	1,300	15	15	15	7,001
Percent	38.89	20.51	21.17	0.43	18.57	0.21	0.21	0.21	100.00
Sample Size	180	95	98	2	86	1	1	1	463
Mean Length	489	551	494	589	553	564	662	662	516
Std. Error	2	2	2	18	3				1
Sample Size	180	95	98	2	86	1	1	1	463

-Continued-

Table 6. (page 3 of 6)

	Age Group								
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	Total
Sample Period 3: 17 - 21 July									
Males	32,453	27,045	21,275	721	28,848			361	110,703
Percent	20.04	16.70	13.14	0.45	17.82			0.22	68.37
Sample Size	90	75	59	2	80			1	307
Mean Length	500	574	501	647	586			570	542
Std. Error	3	4	3	42	4			2	
Sample Size	90	75	59	2	80			1	307
Females	10,457	12,260	9,736		18,391			361	51,205
Percent	6.46	7.57	6.01		11.36			0.22	31.63
Sample Size	29	34	27		51			1	142
Mean Length	492	571	504		582			593	546
Std. Error	5	4	5		3			2	
Sample Size	29	34	27		51			1	142
Both Sexes	42,910	39,305	31,011	721	47,239			722	161,908
Percent	26.50	24.28	19.15	0.45	29.18			0.45	100.00
Sample Size	119	109	86	2	131			2	449
Mean Length	498	573	502	647	584			582	543
Std. Error	3	3	3	42	3			1	
Sample Size	119	109	86	2	131			2	449

-Continued-

Table 6. (page 4 of 6)

	Age Group								
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	Total
Sample Period 4: 24 - 28 July									
Males	186	11,737	14,346	5,961	186	12,854	186		45,456
Percent	0.23	14.22	17.38	7.22	0.23	15.58	0.23		55.08
Sample Size	1	63	77	32	1	69	1		244
Mean Length	559	499	574	492	613	586	508		547
Std. Error		4	4	6		4			2
Sample Size	1	63	77	32	1	69	1		244
Females	186	9,687	10,246	5,775	186	10,807	186		37,073
Percent	0.23	11.74	12.42	7.00	0.23	13.09	0.23		44.92
Sample Size	1	52	55	31	1	58	1		199
Mean Length	535	487	553	491	608	562	595		529
Std. Error		4	3	5		3			2
Sample Size	1	52	55	31	1	58	1		199
Both Sexes	372	21,424	24,592	11,736	372	23,661	186	186	82,529
Percent	0.45	25.96	29.80	14.22	0.45	28.67	0.23	0.23	100.00
Sample Size	2	115	132	63	2	127	1	1	443
Mean Length	547	494	565	492	611	575	508	595	539
Std. Error		3	2	4		2			1
Sample Size	2	115	132	63	2	127	1	1	443

-Continued-

Table 6. (page 5 of 6)

	Age Group								
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	Total
Sample Period 5: 29 July - 14 August									
Males	287	4,158	8,315	1,720	287	12,043		143	26,953
Percent	0.46	6.65	13.30	2.75	0.46	19.27		0.23	43.12
Sample Size	2	29	58	12	2	84		1	188
Mean Length	629	495	595	491	639	601		604	576
Std. Error	29	5	4	6	7	4		2	
Sample Size	2	29	58	12	2	84		1	188
Females	287	7,168	8,459	4,588	287	14,622	143		35,554
Percent	0.46	11.47	13.53	7.34	0.46	23.39	0.23		56.88
Sample Size	2	50	59	32	2	102	1		248
Mean Length	535	490	563	499	604	576	546		546
Std. Error	4	4	3	6	30	3	2		
Sample Size	2	50	59	32	2	102	1		248
Both Sexes	574	11,326	16,774	6,308	574	26,665	143	143	62,507
Percent	0.92	18.12	26.84	10.09	0.92	42.66	0.23	0.23	100.00
Sample Size	4	79	117	44	4	186	1	1	436
Mean Length	582	492	579	497	621	587	546	604	559
Std. Error	14	3	2	5	15	2		1	
Sample Size	4	79	117	44	4	186	1	1	436

-Continued-

Table 6. (page 6 of 6)

	Age Group								
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	Total
All Periods Combined:									
Males	473	51,516	51,857	30,377	1,224	55,896	201	519	192,063
Percent	0.15	15.94	16.05	9.40	0.38	17.29	0.06	0.16	59.43
Sample Size	3	355	324	183	7	347	2	3	1,224
Mean Length	601	499	576	498	638	588	512	582	547
Std. Error	29	2	2	2	30	3			1
Sample Size	3	355	324	183	7	347	2	3	1,224
Females	473	30,022	32,638	21,439	473	45,399	143	547	131,134
Percent	0.15	9.29	10.10	6.63	0.15	14.05	0.04	0.17	40.57
Sample Size	3	286	241	168	3	297	1	2	1,001
Mean Length	535	490	562	499	605	574	546	594	540
Std. Error	4	2	2	3	30	2			1
Sample Size	3	286	241	168	3	297	1	2	1,001
Both Sexes	946	81,538	84,495	51,816	1,697	101,295	344	1,066	323,197
Percent	0.29	25.23	26.14	16.03	0.53	31.34	0.11	0.33	100.00
Sample Size	6	641	565	351	10	644	3	5	2,225
Mean Length	568	496	571	499	629	582	526	588	544
Std. Error	14	2	2	2	24	2			1
Sample Size	6	641	565	351	10	644	3	5	2,225

* Mean length in mm.

Table 7. Age, sex and length composition of sockeye salmon in the Salamatof Beach commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 1995.

	Age Group								
	1.1	0.3	1.2	1.3	2.2	1.4	2.3	3.3	Total
Sample Period 1: 7 July									
Males	10	932	913	365	19	625			2,864
Percent	0.24	22.66	22.20	8.87	0.46	15.20			69.63
Sample Size	1	97	95	38	2	65			298
Mean Length ^a	597	503	574	519	622	580			546
Std. Error		3	3	4	27	3			2
Sample Size	1	97	95	38	2	65			298
Females	10	442	384	106	19	288			1,249
Percent	0.24	10.75	9.34	2.58	0.46	7.00			30.37
Sample Size	1	46	40	11	2	30			130
Mean Length	356	498	571	516	650	572			540
Std. Error		4	5	5	1	5			2
Sample Size	1	46	40	11	2	30			130
Both Sexes	10	10	1,374	1,297	471	38	913		4,113
Percent	0.24	0.24	33.41	31.53	11.45	0.92	22.20		100.00
Sample Size	1	1	143	135	49	4	95		428
Mean Length	356	597	501	573	519	636	578		544
Std. Error		2	2	3	13	3			1
Sample Size	1	1	143	135	49	4	95		428

-Continued-

Table 7. (page 2 of 5)

	Sample Period	Age Group						Total
		1.1	0.3	1.2	1.3	2.2	1.4	2.3
Sample Period 2: 10 - 14 July								
Males	7	7	7	778	463	449	540	2,244
Percent	0.22	0.22	0.22	24.88	14.81	14.36	17.27	71.76
Sample Size	1	1	1	111	66	64	77	320
Mean Length	352	584	498	574	504	574	574	533
Std. Error				3	4	3	4	2
Sample Size	1	1	1	111	66	64	77	320
Females	7	7	7	274	196	189	210	883
Percent	0.22	0.22	0.22	8.76	6.27	6.04	6.72	28.24
Sample Size	1	1	1	39	28	27	30	126
Mean Length	364	579	492	566	497	589	589	532
Std. Error				3	6	5	5	2
Sample Size	1	1	1	39	28	27	30	126
Both Sexes	14	14	14	1,052	659	638	750	3,127
Percent	0.45	0.45	0.45	33.64	21.07	20.40	23.98	100.00
Sample Size	2	2	2	150	94	91	107	446
Mean Length	358	582	497	572	502	578	578	533
Std. Error				2	3	3	3	1
Sample Size	2	2	2	150	94	91	107	446

-Continued-

Table 7. (page 3 of 5)

	Age Group								
	1.1	0.3	1.2	1.3	2.2	1.4	2.3	3.3	Total
Sample Period 3: 17 - 25 July									
Males	462	16,648		20,810	4,393	462	23,587		66,362
Percent	0.44	15.89		19.87	4.19	0.44	22.52		63.36
Sample Size	2	72		90	19	2	102		287
Mean Length	563	504		569	515	664	590		557
Std. Error	36	4		4	7	8	3		2
Sample Size	2	72		90	19	2	102		287
Females	231	6,243		14,568	2,544	231	14,567		38,384
Percent	0.22	5.96		13.91	2.43	0.22	13.91		36.64
Sample Size	1	27		63	11	1	63		166
Mean Length	554	494		565	527	593	573		554
Std. Error		6		3	12		3		2
Sample Size	1	27		63	11	1	63		166
Both Sexes	693	22,891		35,378	6,937	693	38,154		104,746
Percent	0.66	21.85		33.78	6.62	0.66	36.43		100.00
Sample Size	3	99		153	30	3	165		453
Mean Length	560	501		568	520	640	584		556
Std. Error	36	3		2	6	8	2		1
Sample Size	3	99		153	30	3	165		453

-Continued-

Table 7. (page 4 of 5)

	Age Group								
	1.1	0.3	1.2	1.3	2.2	1.4	2.3	3.3	Total
Sample Period 4: 27 July - 14 August									
Males	247	17,059	25,960	3,214	1,236	30,164	247	78,127	
Percent	0.22	15.10	22.98	2.84	1.09	26.70	0.22	69.15	
Sample Size	1	69	105	13	5	122	1	316	
Mean Length	597	509	593	529	626	599	559	575	
Std. Error		5	3	10	4	2		2	
Sample Size	1	69	105	13	5	122	1	316	
Females		6,923	10,631	1,978	247	15,081		34,860	
Percent		6.13	9.41	1.75	0.22	13.35		30.85	
Sample Size		28	43	8	1	61		141	
Mean Length		519	574	541	590	580		564	
Std. Error		4	3	7		3		2	
Sample Size		28	43	8	1	61		141	
Both Sexes	247	23,982	36,591	5,192	1,483	45,245	247	112,987	
Percent	0.22	21.23	32.39	4.60	1.31	40.04	0.22	100.00	
Sample Size	1	97	148	21	6	183	1	457	
Mean Length	597	512	587	534	620	593	559	571	
Std. Error		4	2	7	4	2		1	
Sample Size	1	97	148	21	6	183	1	457	

-Continued-

Table 7. (page 5 of 5)

	Age Group								
	1.1	0.3	1.2	1.3	2.2	1.4	2.3	3.3	Total
All Periods Combined:									
Males	7	726	35,417	48,146	8,421	1,717	54,916	247	149,597
Percent	0.00	0.32	15.74	21.40	3.74	0.76	24.41	0.11	66.50
Sample Size	1	5	349	356	134	9	366	1	1,221
Mean Length	352	575	506	582	520	636	595	559	566
Std. Error		36	3	2	5	4	2	1	
Sample Size	1	5	349	356	134	9	366	1	1,221
Females	17	238	13,882	25,779	4,817	497	30,146		75,376
Percent	0.01	0.11	6.17	11.46	2.14	0.22	13.40		33.50
Sample Size	2	2	140	174	57	4	184		563
Mean Length	359	555	506	569	532	594	577		558
Std. Error			4	2	7	1	2	1	
Sample Size	2	2	140	174	57	4	184		563
Both Sexes	24	964	49,299	73,925	13,238	2,214	85,062	247	224,973
Percent	0.01	0.43	21.91	32.86	5.88	0.98	37.81	0.11	100.00
Sample Size	3	7	489	530	191	13	550	1	1,784
Mean Length	357	570	506	578	524	626	588	559	563
Std. Error		36	2	2	4	4	1	1	
Sample Size	3	7	489	530	191	13	550	1	1,784

* Mean length in mm.

Table 8. Age, sex and length composition of sockeye salmon in the Eastern Subdistrict commercial set gillnet harvest,
Upper Cook Inlet, Alaska, in 1995.

	Age Group									
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	Total
Sample Period 1: 5 June - 17 July										
Males	41	41	2,587	20	1,079	570	20	306		4,664
Percent	0.46	0.46	29.13	0.23	12.15	6.42	0.23	3.45		52.52
Sample Size	2	2	127	1	53	28	1	15		229
Mean Length ^a	370	588	482	365	553	491	625	569		505
Std. Error	15	32	3		6	6		10		2
Sample Size	2	2	127	1	53	28	1	15		229
Females		20	1,875		957	733	20	611		4,216
Percent		0.23	21.11		10.78	8.25	0.23	6.88		47.48
Sample Size		1	92		47	36	1	30		207
Mean Length		515	481		529	496	600	546		505
Std. Error			2		5	5		5		2
Sample Size		1	92		47	36	1	30		207
Both Sexes	41	61	4,462	20	2,036	1,303	40	917		8,880
Percent	0.46	0.69	50.25	0.23	22.93	14.67	0.45	10.33		100.00
Sample Size	2	3	219	1	100	64	2	45		436
Mean Length	370	564	482	365	541	494	613	554		505
Std. Error	15	32	2		4	4		5		2
Sample Size	2	3	219	1	100	64	2	45		436

-Continued-

Table 8. (page 2 of 3)

	Age Group									
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	Total
Sample Period 2: 21 July - 2 September										
Males	69	103	1,820	275	2,781	1,717	34	1,270		8,069
Percent	0.48	0.72	12.68	1.92	19.38	11.96	0.24	8.85		56.22
Sample Size	2	3	53	8	81	50	1	37		235
Mean Length	311	547	483	367	558	488	644	575		521
Std. Error	54	36	4	9	4	5		6		2
Sample Size	2	3	53	8	81	50	1	37		235
Females			2,096		1,923	1,373		858	34	6,284
Percent			14.60		13.40	9.57		5.98	0.24	43.78
Sample Size			61		56	40		25	1	183
Mean Length			482		537	489		556	527	510
Std. Error			3		4	4		7		2
Sample Size			61		56	40		25	1	183
Both Sexes	69	103	3,916	275	4,704	3,090	34	2,128	34	14,353
Percent	0.48	0.72	27.28	1.92	32.77	21.53	0.24	14.83	0.24	100.00
Sample Size	2	3	114	8	137	90	1	62	1	418
Mean Length	311	547	482	367	549	488	644	568	527	516
Std. Error	54	36	3	9	3	3		5		2
Sample Size	2	3	114	8	137	90	1	62	1	418

-Continued-

Table 8. (page 3 of 3)

	Age Group									
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	Total
All Periods Combined:										
Males	110	144	4,407	295	3,860	2,287	54	1,576		12,733
Percent	0.47	0.62	18.97	1.27	16.61	2.984	0.23	6.78		54.81
Sample Size	4	5	180	9	134	78	2	52		464
Mean Length	333	559	483	367	556	489	637	574		515
Std. Error	34	27	2	9	3	4	5	5		2
Sample Size	4	5	180	9	134	78	2	52		464
Females	20	3,971	2,880	2,106	20	1,469	34	10,500		
Percent	0.09	17.09	12.40	9.06	0.09	6.32	0.15	45.19		
Sample Size	1	153	103	76	1	55	1	390		
Mean Length	515	481	534	491	600	552	527	508		
Std. Error										
Sample Size	1	153	103	76	1	55	1	390		
Both Sexes	110	164	8,378	295	6,740	4,393	74	3,045		
Percent	0.47	0.71	36.06	1.27	29.01	18.91	0.32	13.11	0.34	23.233
Sample Size	4	6	333	9	237	154	3	107	0.15	100.00
Mean Length	333	553	482	367	547	490	627	564	1	854
Std. Error	34	27	2	9	237	154	3	107	4	512
Sample Size	4	6	333	9					1	854

* Mean length in mm.

Table 9. Age, sex and length composition of sockeye salmon in the General Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 1995.

	Age Group							
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	Total
Sample Period 1: 5 June - 23 July								
Males	85	761	2,960	14,798	1,268	85	3,214	23,171
Percent	0.18	1.65	6.41	32.05	2.75	0.18	6.96	50.18
Sample Size	1	9	35	175	15	1	38	274
Mean Length ^a	487	598	514	585	523	618	582	573
Std. Error		7	6	2	7		4	1
Sample Size	1	9	35	175	15	1	38	274
Females	85	1,015	1,776	16,067	1,099		2,960	23,002
Percent	0.18	2.20	3.85	34.80	2.38		6.41	49.82
Sample Size	1	12	21	190	13		35	272
Mean Length	493	576	506	563	513		559	556
Std. Error		5	7	2	7		4	1
Sample Size	1	12	21	190	13		35	272
Both Sexes	170	1,776	4,736	30,865	2,367	85	6,174	46,173
Percent	0.37	3.85	10.26	66.85	5.13	0.18	13.37	100.00
Sample Size	2	21	56	365	28	1	73	546
Mean Length	490	585	511	574	518	618	571	564
Std. Error		4	4	1	5		3	1
Sample Size	2	21	56	365	28	1	73	546

-Continued-

Table 9. (page 2 of 3)

	Age Group							
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	Total
Sample Period 2: 25 July - 31 August								
Males	91	1,181	908	12,535	999	2,997	18,711	
Percent	0.23	2.98	2.29	31.58	2.52	7.55	47.14	
Sample Size	1	13	10	138	11	33	206	
Mean Length	449	595	501	581	529	572	573	
Std. Error		5	11	2	6	4	2	
Sample Size	1	13	10	138	11	33	206	
Females	91	636	999	15,168	817	3,270	20,981	
Percent	0.23	1.60	2.52	38.21	2.06	8.24	52.86	
Sample Size	1	7	11	167	9	36	231	
Mean Length	524	567	508	562	512	560	557	
Std. Error		5	4	2	6	3	1	
Sample Size	1	7	11	167	9	36	231	
Both Sexes	182	1,817	1,907	27,703	1,816	6,267	39,692	
Percent	0.46	4.58	4.80	69.79	4.58	15.79	100.00	
Sample Size	2	20	21	305	20	69	437	
Mean Length	487	585	505	570	521	566	564	
Std. Error		4	6	1	4	3	1	
Sample Size	2	20	21	305	20	69	437	

-Continued-

Table 9. (page 3 of 3)

	Age Group							
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	Total
All Periods Combined:								
Males	176	1,942	3,868	27,333	2,267	85	6,211	41,882
Percent	0.20	2.26	4.50	31.83	2.64	0.10	7.23	48.78
Sample Size	2	22	45	313	26	1	71	480
Mean Length	467	596	511	583	526	618	577	573
Std. Error		4	5	1	5		3	1
Sample Size	2	22	45	313	26	1	71	480
Females	176	1,651	2,775	31,235	1,916		6,230	43,983
Percent	0.20	1.92	3.23	36.38	2.23		7.26	51.22
Sample Size	2	19	32	357	22		71	503
Mean Length	509	572	507	562	512		560	556
Std. Error		3	5	1	5		3	1
Sample Size	2	19	32	357	22		71	503
Both Sexes	352	3,593	6,643	58,568	4,183	85	12,441	85,865
Percent	0.41	4.18	7.74	68.21	4.87	0.10	14.49	100.00
Sample Size	4	41	77	670	48	1	142	983
Mean Length	488	585	509	572	520	618	568	564
Std. Error		3	3	1	3		2	1
Sample Size	4	41	77	670	48	1	142	983

* Mean length in mm.

Table 10. Age, sex and length composition of sockeye salmon escapement in Kenai River, Upper Cook Inlet, Alaska, in 1995.

	Age Group						Total		
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4
Sample period:									
	1 July - 14 August								
Males	885	885	102,714	6,198	71,722	20,366	100,942	1,771	305,483
Percent	0.14	0.14	16.29	0.98	11.38	3.23	16.01	0.28	48.45
Sample Size	1	1	116	7	81	23	114	2	345
Mean Length ^a	410	570	492	397	584	504	588	605	545
Std. Error									
Sample Size	1	1	116	9	3	9	3	6	2
Females	885	1,771	98,287	8,855	94,744	21,251	2,656	96,515	324,964
Percent	0.14	0.28	15.59	1.40	15.03	3.37	0.42	15.31	51.55
Sample Size	1	2	111	10	107	24	3	109	367
Mean Length	330	561	487	402	564	521	597	569	534
Std. Error									
Sample Size	1	8	4	7	2	8	9	3	2
Both Sexes	1,770	2,656	201,001	15,053	166,466	41,617	2,656	197,457	630,447
Percent	0.28	0.42	31,88	2,39	26,40	6,60	0.42	31,32	100,00
Sample Size	2	3	227	17	188	47	3	223	712
Mean Length	370	564	489	400	572	513	597	578	539
Std. Error									
Sample Size	2	8	3	227	17	188	6	223	1
									712

^a Mean length in mm.

Table 11. Age, sex and length composition of sockeye salmon escapement in Hidden Creek, Kenai River drainage, Upper Cook Inlet, Alaska, in 1995.

	Age Group						Total
	1.2	2.1	1.3	2.2	2.3	3.2	
Sample period: 16 July - 12 September							
Males	2,114	19	618	524	37		
Percent	28.03	0.25	8.19	6.95	0.49		
Sample Size	113	1	33	28	2		
Mean Length ^a	526	450	569	532	583		
Std. Error	2		4	4	3		
Sample Size	113	1	33	28	2		
Females	2,658		318	1,029	206		
Percent	35.24		4.22	13.64	2.73		
Sample Size	142		17	55	11		
Mean Length	504		540	522	554		
Std. Error	2		8	4	6		
Sample Size	142		17	55	11		
Both Sexes	4,772	19	936	1,553	243	19	7,542 ^b
Percent	63.27	0.25	12.41	20.59	3.22	0.25	100.00
Sample Size	255	1	50	83	13	1	403
Mean Length	514	450	559	525	559	540	523
Std. Error	1		4	3	5	1	1
Sample Size	255	1	50	83	13	1	403

^a Mean length in mm.

^b Total represents an escapement through the weir. Number of fish used for egg take above weir was 1,626 with a remaining spawning stock of 5,916 fish. Number of mortalities included in escapement count were 29 fish.

Table 12. Age, sex and length composition of sockeye salmon escapement in Kasilof River, Upper Cook Inlet, Alaska, in 1995.

	Age Group					
	1.1	1.2	1.3	2.2	2.3	Total
Sample period:	15 June - 7 August					
Males	349	40,848	14,663	21,296	14,663	91,819
Percent	0.17	19.93	7.15	10.39	7.15	44.80
Sample Size	1	117	42	61	42	263
Mean Length ^a	355	491	542	492	546	508
Std. Error		2	5	3	4	2
Sample Size	1	117	42	61	42	263
Females		49,226	17,107	30,025	16,758	113,116
Percent		24.02	8.35	14.65	8.18	55.20
Sample Size		141	49	86	48	324
Mean Length		483	534	485	536	499
Std. Error		2	3	2	3	1
Sample Size		141	49	86	48	324
Both Sexes	349	90,074	31,770	51,321	31,421	204,935
Percent	0.17	43.95	15.50	25.04	15.33	100.00
Sample Size	1	258	91	147	90	587
Mean Length	355	487	538	488	541	503
Std. Error		1	3	2	3	1
Sample Size	1	258	91	147	90	587

^a Mean length in mm.

Table 13. Age, sex and length composition of sockeye salmon escapement in Crescent River, Upper Cook Inlet, Alaska, in 1995.

	Age Group								
	1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
Sample period:	28 June - 9 August								
Males	193	3,275	96	3,853	3,853	96	14,838	96	26,300
Percent	0.37	6.26	0.18	7.37	7.37	0.18	28.36	0.18	50.28
Sample Size	2	34	1	40	40	1	154	1	273
Mean Length ^a	355	485	353	581	503	603	581	558	555
Std. Error	15	5		4	5		2		2
Sample Size	2	34	1	40	40	1	154	1	273
Females		1,541		5,780	1,060	193	17,437		26,011
Percent		2.95		11.05	2.03	0.37	33.33		49.72
Sample Size		16		60	11	2	181		270
Mean Length		497		555	513	582	553		549
Std. Error		6		2	9	16	2		1
Sample Size		16		60	11	2	181		270
Both Sexes	193	4,816	96	9,633	4,913	289	32,275	96	52,311
Percent	0.37	9.21	0.18	18.41	9.39	0.55	61.70	0.18	100.00
Sample Size	2	50	1	100	51	3	335	1	543
Mean Length	355	489	353	565	505	589	566	558	552
Std. Error	15	4		2	4	16	1		1
Sample Size	2	50	1	100	51	3	335	1	543

^a Mean length in mm.

Table 14. Age, sex and length composition of sockeye salmon escapement in Packers Creek, Kalgin Island, Upper Cook Inlet, Alaska, in 1995.

	Age Group							
	1.2	2.1	1.3	2.2	3.1	2.3	2.4	Total
Sample Period 1: 2 - 30 June								
Males	12		24	200		707		943
Percent	0.54		1.08	9.02		31.89		42.53
Sample Size	1		2	17		60		80
Mean Length ^a	520		615	505		568		555
Std. Error			5	7		3		3
Sample Size	1		2	17		60		80
Females	12		24	130		1,096	12	1,274
Percent	0.54		1.08	5.86		49.44	0.54	57.47
Sample Size	1		2	11		93	1	108
Mean Length	540		525	495		541	510	536
Std. Error			5	5		3		3
Sample Size	1		2	11		93	1	108
Both Sexes	24		48	330		1,803	12	2,217
Percent	1.08		2.17	14.88		81.33	0.54	100.00
Sample Size	2		4	28		153	1	188
Mean Length	530		570	501		551	510	544
Std. Error			4	5		2		2
Sample Size	2		4	28		153	1	188

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Table 14. (page 2 of 3)

	Sample Period	1 July - 28 September	Age Group					Total
			1.2	2.1	1.3	2.2	3.1	
Males	3,558	970	970	2.05	9.164	108	7,331	22,101
Percent	7.52				19.36	0.23	15.49	46.70
Sample Size	33	9			85	1	68	205
Mean Length	448	354	559		462	350	561	492
Std. Error	4	13	9		4	4	4	2
Sample Size	33	9			85	1	68	205
Females	539	647	1,617	1.617	8,086		14,338	25,227
Percent	1.14	1.37	3.42		17.09		30.29	53.30
Sample Size	5	6	15		75		133	234
Mean Length	488	340	538		476		536	511
Std. Error	10	5	6		3		2	2
Sample Size	5	6	15		75		133	234
Both Sexes	4,097	1,617	2,587	17.250	108		21,669	47,328
Percent	8.66	3.42	5.47	36.45	0.23		45.78	100.00
Sample Size	38	15	24	160	1		201	439
Mean Length	453	348	546	469	350		545	502
Std. Error	4	8	5	3	3		2	1
Sample Size	38	15	24	160	1		201	439

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	Age Group							
	1.2	2.1	1.3	2.2	3.1	2.3	2.4	Total
All Periods Combined:								
Males	3,570	970	994	9,364	108	8,038		23,044
Percent	7.21	1.96	2.01	18.90	0.22	16.22		46.51
Sample Size	34	9	11	102	1	128		285
Mean Length	448	354	560	463	350	562		494
Std. Error	4	13	9	4		3		2
Sample Size	34	9	11	102	1	128		285
Females	551	647	1,641	8,216		15,434	12	26,501
Percent	1.11	1.31	3.31	16.58		31.15	0.02	53.49
Sample Size	6	6	17	86		226	1	342
Mean Length	489	340	538	476		537	510	512
Std. Error	10	5	6	3		2		2
Sample Size	6	6	17	86		226	1	342
Both Sexes	4,121	1,617	2,635	17,580	108	23,472	12	49,545 ^b
Percent	8.32	3.26	5.32	35.48	0.22	47.38	0.02	100.00
Sample Size	40	15	28	188	1	354	1	627
Mean Length	454	348	546	469	350	545	510	504
Std. Error	4	8	5	2		2		1
Sample Size	40	15	28	188	1	354	1	627

^a Mean length in mm.^b Total represents an escapement through the weir of 29,473, a cost recovery harvest below the weir of 19,964, and mortalities of 108 fish. Number of fish used for egg take above weir was 2,894 leaving a spawning stock of 26,579 fish.

Table 15. Age, sex and length composition of sockeye salmon escapement in Yentna River (RM 4.0), Susitna River drainage, Upper Cook Inlet, Alaska, in 1995.

	Age Group										
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	Total
Sample period: 7 July - 10 August											
Males	2.391	956	2,869	13,867	239	29,649	5,499	478	5,977		61,925
Percent	1.97	0.79	2.37	11.44	0.20	24.46	4.54	0.39	4.93		51.08
Sample Size	10	4	12	58	1	124	23	2	25		259
Mean Length ^a	437	393	578	460	575	568	472	527	578		529
Std. Error	5	48	9	4		3	9	91	4		2
Sample Size	10	4	12	58	1	124	23	2	25		259
Females	239		3,347	10,042		32,517	4,782		8,129	239	59,295
Percent	0.20		2.76	8.28		26.82	3.94		6.71	0.20	48.92
Sample Size	1		14	42		136	20		34	1	248
Mean Length	410		550	472		545	488		544	473	527
Std. Error			7	6		2	6		3		2
Sample Size	1		14	42		136	20		34	1	248
Both Sexes	2.630	956	6,216	23,909	239	62,166	10,281	478	14,106	239	121,220
Percent	2.17	0.79	5.13	19.72	0.20	51.28	8.48	0.39	11.64	0.20	100.00
Sample Size	11	4	26	100	1	260	43	2	59	1	507
Mean Length	435	393	563	465	575	556	479	527	559	473	528
Std. Error	5	48	5	4		2	5	91	3		1
Sample Size	11	4	26	100	1	260	43	2	59	1	507

^a Mean length in mm.

Table 16. Age, sex and length composition of sockeye salmon escapement in Chelatna Lake (Lake Creek), Yentna River drainage, Upper Cook Inlet, Alaska, in 1995.

	Age Group							
	1.1	0.3	1.2	1.3	2.2	1.4	2.3	Total
Sample period:	11 July - 27 August							
Males		187	1,633	6,203	93		233	8,349
Percent		0.93	8.12	30.85	0.46		1.16	41.53
Sample Size		4	35	133	2		5	179
Mean Length ^a		588	514	582	435		582	567
Std. Error		5	6	2	5		10	2
Sample Size		4	35	133	2		5	179
Females		47	420	3,778	6,764	93	560	11,755
Percent		0.23	2.09	18.79	33.65	0.46	0.46	2.79
Sample Size		1	9	81	145	2	2	12
Mean Length		330	558	505	557	520	565	539
Std. Error		7	2	2	15		3	1
Sample Size		1	9	81	145	2	2	12
Both Sexes		47	607	5,411	12,967	186	93	793
Percent		0.23	3.02	26.92	64.50	0.93	0.46	3.94
Sample Size		1	13	116	278	4	2	17
Mean Length		330	567	508	569	478	565	560
Std. Error		5	2	1	8		4	1
Sample Size		1	13	116	278	4	2	17
								431

^a Mean length in mm.

^b Total represents an escapement through the weir. Number of fish used for egg take above weir was 962 plus 83 mortalities leaving a spawning stock of 19,059 fish.

Table 17. Age, sex and length composition of sockeye salmon escapement in Fish Creek, Upper Cook Inlet, Alaska, in 1995.

	Age Group								
	1.1	1.2	2.1	1.3	2.2	2.3	3.2	3.3	Total
Sample period:		7 July - 14 August							
♂	Males	4,371	19,232	583	9,616	3,497	3,205	291	40,795
	Percent	3.80	16.71	0.51	8.35	3.04	2.78	0.25	35.44
	Sample Size	15	66	2	33	12	11	1	140
	Mean Length ^a	361	490	375	556	495	553	580	496
	Std. Error	3	5	15	6	10	8		3
	Sample Size	15	66	2	33	12	11	1	140
♀	Females	3,497	39,338	583	13,696	9,033	7,868	291	74,306
	Percent	3.04	34.18	0.51	11.90	7.85	6.84	0.25	64.56
	Sample Size	12	135	2	47	31	27	1	255
	Mean Length	378	480	415	523	484	538	470	489
	Std. Error	16	2		4	3	7		2
	Sample Size	12	135	2	47	31	27	1	255
	Both Sexes	7,868	58,570	1,166	23,312	12,530	11,073	291	115,101
	Percent	6.84	50.89	1.01	20.25	10.89	9.62	0.25	100.00
	Sample Size	27	201	4	80	43	38	1	395
	Mean Length	369	483	395	537	487	542	470	492
	Std. Error	7	2	15	4	4	5		2
	Sample Size	27	201	4	80	43	38	1	395

^a Mean length in mm.

Table 18. Age, sex and length composition of chinook salmon in the Upper Subdistrict commercial set gillnet harvest,
Upper Cook Inlet, Alaska, in 1995.

	Age Group										
	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	2.5	Total
Sample Period 1: 3 - 10 July											
Males	131	496		319		547		114	6	6	1,619
Percent	4.69	17.75		11.42		19.58		4.08	0.21	0.21	57.95
Sample Size	23	87		56		96		20	1	1	284
Mean Length ^a	413	641		889		1,053		1,125	1,080	1,200	848
Std. Error	8	9		14		8		12			5
Sample Size	23	87		56		96		20	1	1	284
Females	6	302		251		473	6	120	17		1,175
Percent	0.21	10.81		8.98		16.93	0.21	4.29	0.61		42.05
Sample Size	1	53		44		83	1	21	3		206
Mean Length	550	634		892		1,013	940	1,063	1,047		893
Std. Error		9		13		5		16	29		5
Sample Size	1	53		44		83	1	21	3		206
Both Sexes	137	798		570		1,020	6	234	23	6	2,794
Percent	4.90	28.56		20.40		36.51	0.21	8.38	0.82	0.21	100.00
Sample Size	24	140		100		179	1	41	4	1	490
Mean Length	419	638		891		1,034	940	1,093	1,055	1,200	867
Std. Error	8	6		10		5		10	29		3
Sample Size	24	140		100		179	1	41	4	1	490

-Continued-

Table 18. (page 2 of 4)

	Age Group										
	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	2.5	Total
Sample Period 2: 14 - 20 July											
Males	148	883		705	52	497	7	104			2,396
Percent	3.96	23.62		18.86	1.39	13.29	0.19	2.78			64.08
Sample Size	20	119		95	7	67	1	14			323
Mean Length	423	645		879	657	1,030	900	1,123			802
Std. Error	6	6		9	22	10		19			4
Sample Size	20	119		95	7	67	1	14			323
Females		356		423	7	527		30			1,343
Percent		9.52		11.31	0.19	14.09		0.80			35.92
Sample Size		48		57	1	71		4			181
Mean Length		660		911	680	1,018		1,110			890
Std. Error		8		9		7		23			5
Sample Size		48		57	1	71		4			181
Both Sexes	148	1,239		1,128	59	1,024	7	134			3,739
Percent	3.96	33.14		30.17	1.58	27.39	0.19	3.58			100.00
Sample Size	20	167		152	8	138	1	18			504
Mean Length	423	649		891	660	1,024	900	1,120			833
Std. Error	6	5		7	22	6		15			3
Sample Size	20	167		152	8	138	1	18			504

-Continued-

Table 18. (page 3 of 4)

	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	2.5	Age Group	
											Total	Total
Sample Period 3: 21 July - 14 August												
Males	32	524	11	1,070	32	781	128	14.20	2,33	2,578	46,88	
Percent	0.58	9.53	0.20	19.46	0.58	14.20						
Sample Size	3	49	1	100	3	73						
Mean Length	430	640	410	880	673	1,048						
Std. Error	15	10		10	19	8						
Sample Size	3	49	1	100	3	73						
Females	11	128		1,188	1,380	214						
Percent	0.20	2.33		21.60	25.10	3.89						
Sample Size	1	12		111	129	20						
Mean Length	425	679		912	1,010	1,080						
Std. Error		14		6	6	16						
Sample Size	1	12		111	129	20						
Both Sexes	43	652	11	2,258	32	2,161	342					
Percent	0.78	11.86	0.20	41.06	0.58	39.30	6.22					
Sample Size	4	61	1	211	3	202	32					
Mean Length	429	648	410	897	673	1,023	1,111					
Std. Error	15	9		6	19	5	12					
Sample Size	4	61	1	211	3	202	32					

-Continued-

Table 18. (page 4 of 4)

	Age Group										
	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	2.5	Total
<i>All Periods Combined:</i>											
Males	311	1,903	11	2,094	84	1,825	7	346	6	6	6,593
Percent	2.58	15.82	0.09	17.40	0.70	15.17	0.06	2.88	0.05	0.05	54.80
Sample Size	46	255	1	251	10	236	1	46	1	1	848
Mean Length	419	643	410	881	663	1,044	900	1,138	1,080	1,200	846
Std. Error	5	5	6	16	5	10	10	10	10	10	3
Sample Size	46	255	1	251	10	236	1	46	1	1	848
Females	17	786	1,862	7	2,380	6	364	17	17	17	5,439
Percent	0.14	6.53	15.48	0.06	19.78	0.05	3.03	0.14	0.14	0.14	45.20
Sample Size	2	113	212	1	283	1	45	3	3	3	660
Mean Length	469	653	909	680	1,012	940	1,077	1,047	1,047	1,047	927
Std. Error	6	6	5	4	4	11	11	11	11	11	3
Sample Size	2	113	212	1	283	1	45	3	3	3	660
Both Sexes	328	2,689	11	3,956	91	4,205	13	710	23	6	12,032
Percent	2.73	22.35	0.09	32.88	0.76	34.95	0.11	5.90	0.19	0.05	100.00
Sample Size	48	368	1	463	11	519	2	91	4	1	1,508
Mean Length	422	646	410	895	665	1,026	918	1,107	1,055	1,200	883
Std. Error	5	4	4	16	3	11	519	7	29	29	2
Sample Size	48	368	1	463	11	519	2	91	4	1	1,508

a Mean length in mm.

Table 19. Age, length and percent female composition of coho salmon in selected commercial gillnet harvests, Upper Cook Inlet, Alaska, in 1995.

Fishery	Age Group			
	1.1	2.1	3.1	Total
COMMERCIAL CATCH				
Central District				
Central Drift				
Number	19,146	193,167	21,813	234,126 ^a
Percent	8.18	82.51	9.32	100.00
Mean Length ^b	527	542	560	543
% Female	57	51	48	51
Sample Size	79	797	90	966
Upper Subdistrict				
Number	3,051	34,769	6,930	44,750
Percent	6.82	77.70	15.49	100.00
Mean Length	538	556	583	559
% Female	57	57	48	55
Sample Size	70	776	156	1,002
Northern District				
General Subdistrict				
Number	6,477	64,653	6,182	77,312
Percent	8.38	83.63	8.00	100.00
Mean Length	525	550	575	550
% Female	54	54	47	54
Sample Size	110	1,098	105	1,313
Commercial Catch Total				
Number	28,674	292,589	34,925	356,188 ^c
Percent	8.05	82.14	9.81	100.00
Mean Length	528	546	567	546
% Female	56	52	48	52
Sample Size	259	2,671	351	3,281

^a Does not include the Chinitna Bay Subdistrict harvest of 7,347 fish.

^b Mean length in mm.

^c This total represents 79.7% of the total Upper Cook Inlet harvest.

Table 20. Age, sex and length composition of coho salmon in the Central District commercial drift gillnet harvest, Upper Cook Inlet, Alaska, in 1995.

	Age Group			
	1.1	2.1	3.1	Total
Sample period: 26 June - 1 September				
Males	8,240	94,524	11,391	114,155
Percent	3.52	40.37	4.87	48.76
Sample Size	34	390	47	471
Mean Length ^a	520	548	564	547
Std. Error	6	2	6	2
Sample Size	34	390	47	471
Females	10,906	98,643	10,422	119,971
Percent	4.66	42.13	4.45	51.24
Sample Size	45	407	43	495
Mean Length	532	537	556	538
Std. Error	5	2	5	2
Sample Size	45	407	43	495
Both Sexes	19,146	193,167	21,813	234,126
Percent	8.18	82.51	9.32	100.00
Sample Size	79	797	90	966
Mean Length	527	542	560	543
Std. Error	4	1	4	1
Sample Size	79	797	90	966

^a Mean length in mm.

Table 21. Age, sex and length composition of coho salmon in the Upper Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 1995.

	Age Group			
	1.1	2.1	3.1	Total
Sample Period 1: 3 - 30 July				
Males	484	8,177	2,032	10,693
Percent	1.95	32.94	8.19	43.08
Sample Size	10	169	42	221
Mean Length ^a	560	563	579	566
Std. Error	6	3	7	3
Sample Size	10	169	42	221
Females	774	11,758	1,597	14,129
Percent	3.12	47.37	6.43	56.92
Sample Size	16	243	33	292
Mean Length	528	534	563	537
Std. Error	7	3	8	2
Sample Size	16	243	33	292
Both Sexes	1,258	19,935	3,629	24,822
Percent	5.07	80.31	14.62	100.00
Sample Size	26	412	75	513
Mean Length	541	546	572	549
Std. Error	5	2	5	2
Sample Size	26	412	75	513

-Continued-

Table 21. (page 2 of 3)

	Age Group			
	1.1	2.1	3.1	Total
Sample Period 2: 31 July - 14 August				
Males	815	6,928	1,589	9,332
Percent	4.09	34.77	7.97	46.83
Sample Size	20	170	39	229
Mean Length	534	576	599	576
Std. Error	9	4	7	3
Sample Size	20	170	39	229
Females	978	7,906	1,712	10,596
Percent	4.91	39.67	8.59	53.17
Sample Size	24	194	42	260
Mean Length	538	566	593	568
Std. Error	9	3	6	3
Sample Size	24	194	42	260
Both Sexes	1,793	14,834	3,301	19,928
Percent	9.00	74.44	16.56	100.00
Sample Size	44	364	81	489
Mean Length	536	571	596	572
Std. Error	7	2	4	2
Sample Size	44	364	81	489

-Continued-

Table 21. (page 3 of 3)

	Age Group			
	1.1	2.1	3.1	Total
All Periods Combined:				
Males	1,299	15,105	3,621	20,025
Percent	2.90	33.75	8.09	44.75
Sample Size	30	339	81	450
Mean Length	544	569	588	571
Std. Error	6	2	5	2
Sample Size	30	339	81	450
Females	1,752	19,664	3,309	24,725
Percent	3.92	43.94	7.39	55.25
Sample Size	40	437	75	552
Mean Length	534	547	578	550
Std. Error	6	2	5	2
Sample Size	40	437	75	552
Both Sexes	3,051	34,769	6,930	44,750
Percent	6.82	77.70	15.49	100.00
Sample Size	70	776	156	1,002
Mean Length	538	556	583	559
Std. Error	4	2	3	1
Sample Size	70	776	156	1,002

^a Mean length in mm.

Table 22. Age, sex and length composition of coho salmon in the General Subdistrict commercial set gillnet harvest, Upper Cook Inlet, Alaska, in 1995.

	Age Group			
	1.1	2.1	3.1	Total
Sample period:	30 June - 4 September			
Males	3,003	29,618	3,297	35,918
Percent	3.88	38.31	4.26	46.46
Sample Size	51	503	56	610
Mean Length ^a	530	559	580	558
Std. Error	6	2	4	2
Sample Size	51	503	56	610
Females	3,474	35,035	2,885	41,394
Percent	4.49	45.32	3.73	53.54
Sample Size	59	595	49	703
Mean Length	521	543	570	543
Std. Error	5	1	5	1
Sample Size	59	595	49	703
Both Sexes	6,477	64,653	6,182	77,312
Percent	8.38	83.63	8.00	100.00
Sample Size	110	1,098	105	1,313
Mean Length	525	550	575	550
Std. Error	4	1	3	1
Sample Size	110	1,098	105	1,313

^a Mean length in mm.

Table 23. Age, sex and length composition of chum salmon in the Central District commercial drift gillnet harvest, Upper Cook Inlet, Alaska, in 1995.

	Age Group				
	0.2	0.3	0.4	0.5	Total
Sample Period 1: 26 June - 17 July					
Males	68,980	8,931	1,232	79,143	
Percent	39.44	5.11	0.70	45.25	
Sample Size	224	29	4	257	
Mean Length	607	625	621	609	
Std. Error	2	6	13	2	
Sample Size	224	29	4	257	
Females	616	78,218	14,166	2,772	95,772
Percent	0.35	44.72	8.10	1.58	54.75
Sample Size	2	254	46	9	311
Mean Length	596	600	621	619	604
Std. Error	20	2	4	5	1
Sample Size	2	254	46	9	311
Both Sexes	616	147,198	23,097	4,004	174,915
Percent	0.35	84.15	13.20	2.29	100.00
Sample Size	2	478	75	13	568
Mean Length	596	603	622	619	606
Std. Error	20	1	3	5	1
Sample Size	2	478	75	13	568

-Continued-

Table 23. (page 2 of 3)

	Age Group				
	0.2	0.3	0.4	0.5	Total
Sample Period 2: 21 July - 15 September					
Males	1,061	129,947	5,834	1,061	137,903
Percent	0.36	44.30	1.99	0.36	47.02
Sample Size	2	245	11	2	260
Mean Length	583	585	597	609	586
Std. Error	18	2	7	1	1
Sample Size	2	245	11	2	260
Females	530	145,329	8,486	1,061	155,406
Percent	0.18	49.55	2.89	0.36	52.98
Sample Size	1	274	16	2	293
Mean Length	564	581	588	634	582
Std. Error		1	5	6	1
Sample Size	.1	274	16	2	293
Both Sexes	1,591	275,276	14,320	2,122	293,309
Percent	0.54	93.85	4.88	0.72	100.00
Sample Size	3	519	27	4	553
Mean Length	576	583	592	621	584
Std. Error	18	1	4	3	1
Sample Size	3	519	27	4	553

-Continued-

Table 23. (page 3 of 3)

	Age Group				
	0.2	0.3	0.4	0.5	Total
All Periods Combined:					
Males	1,061	198,927	14,765	2,293	217,046
Percent	0.23	42.49	3.15	0.49	46.36
Sample Size	2	469	40	6	517
Mean Length	583	593	614	615	594
Std. Error	18	1	4	7	1
Sample Size	2	469	40	6	517
Females	1,146	223,547	22,652	3,833	251,178
Percent	0.24	47.74	4.84	0.82	53.64
Sample Size	3	528	62	11	604
Mean Length	581	588	608	623	590
Std. Error	20	1	3	4	1
Sample Size	3	528	62	11	604
Both Sexes	2,207	422,474	37,417	6,126	468,224
Percent	0.47	90.23	7.99	1.31	100.00
Sample Size	5	997	102	17	1,121
Mean Length	582	590	611	620	592
Std. Error	13	1	3	4	1
Sample Size	5	997	102	17	1,121

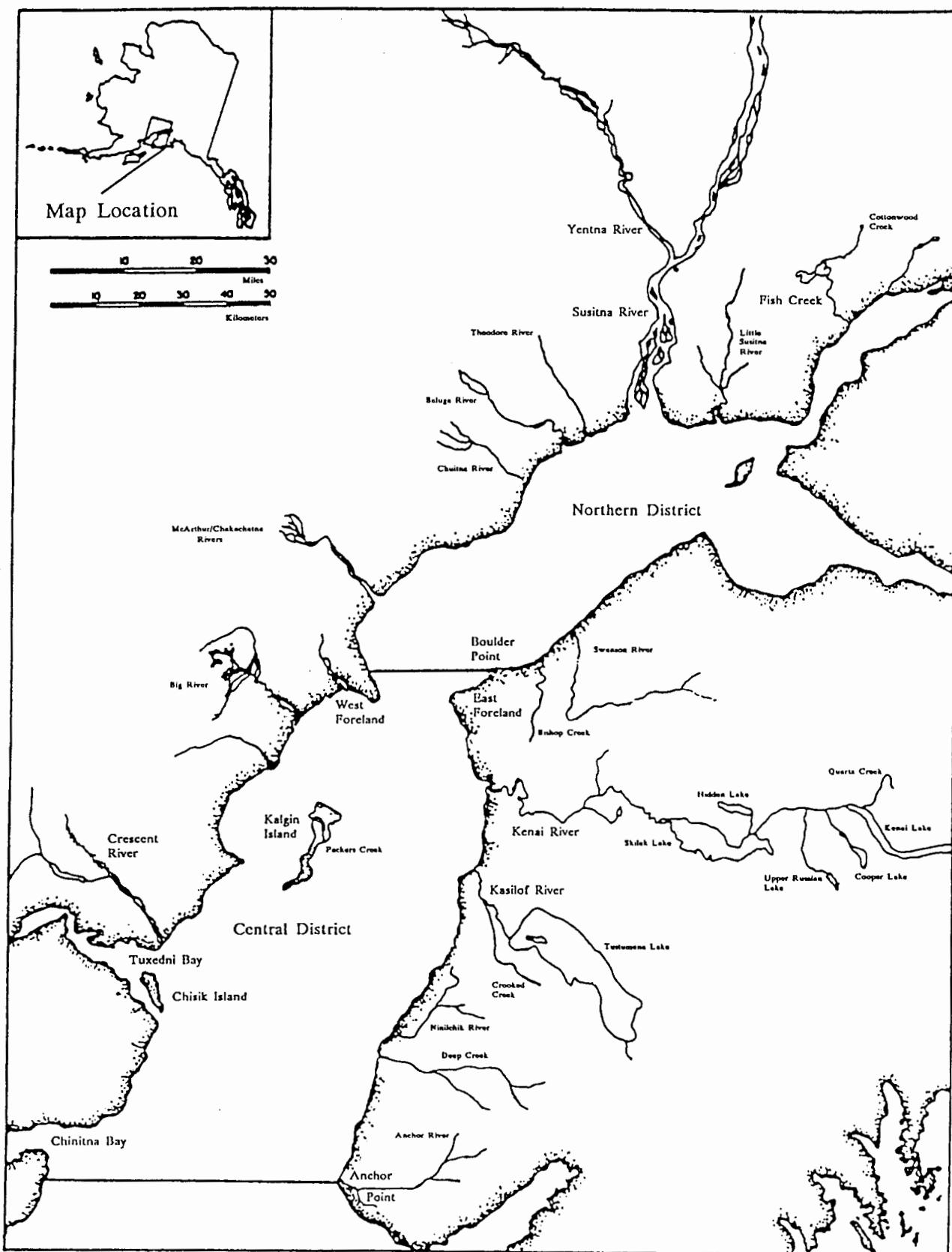


Figure 1. Map of Upper Cook Inlet showing locations of the Northern and Central Districts and the primary salmon spawning drainages.

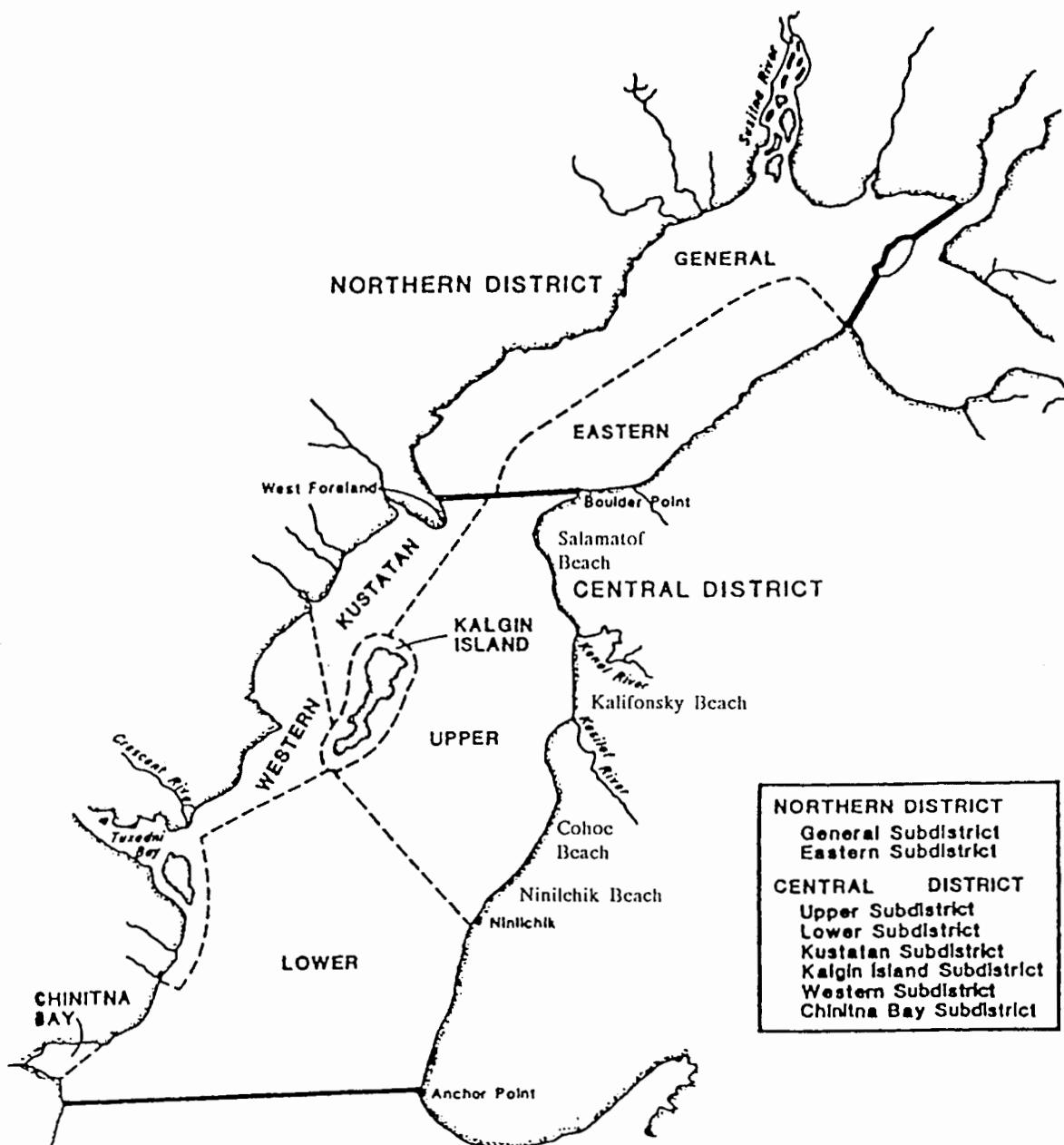


Figure 2. Map of Upper Cook Inlet showing the commercial fishing districts, subdistricts and Upper Subdistrict beach fisheries.

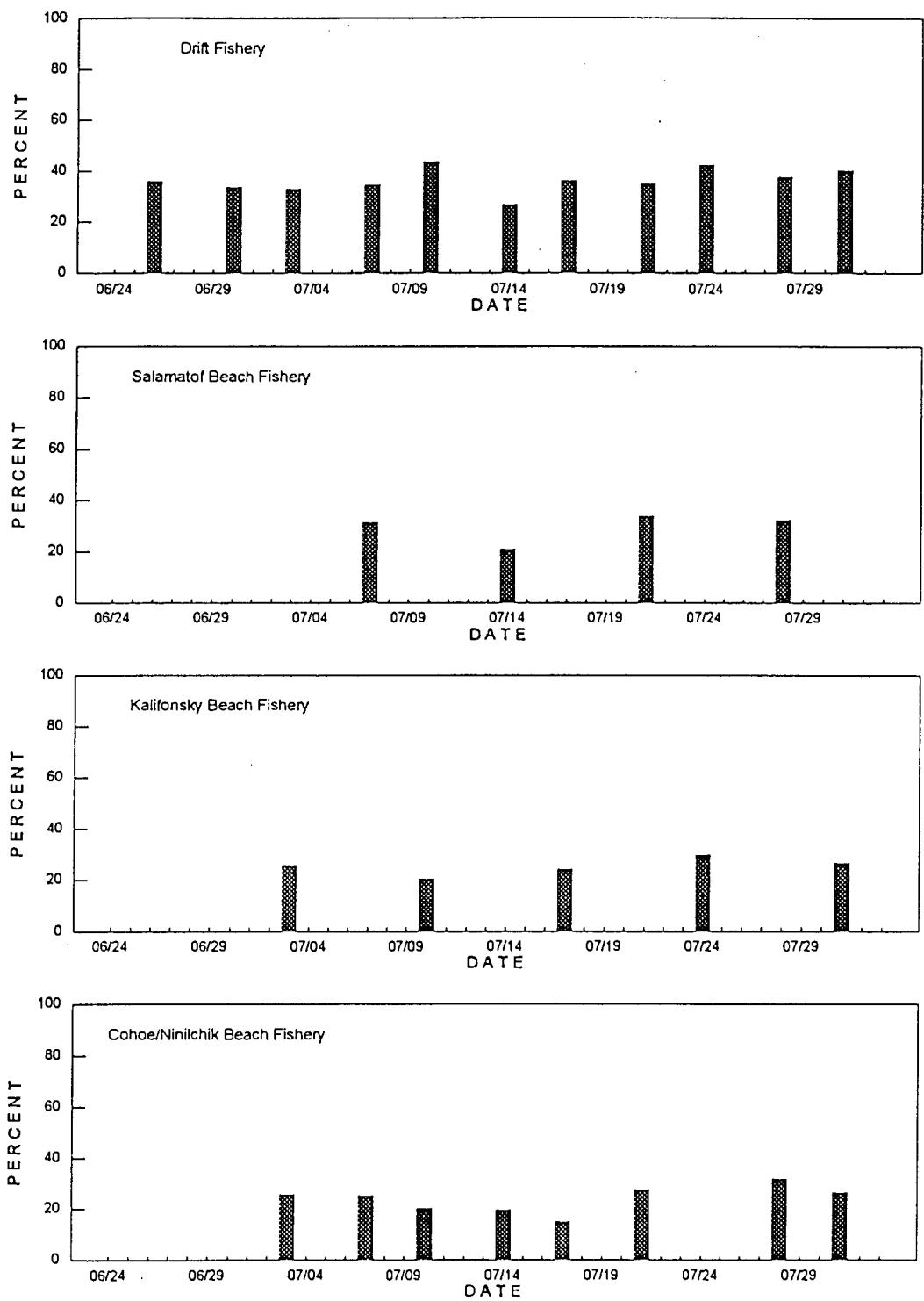


Figure 3. Trends in age-1.3 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, Kalifonsky, and Cohoe/Ninilchik Beaches) set gillnet harvests, Upper Cook Inlet, Alaska, in 1995.

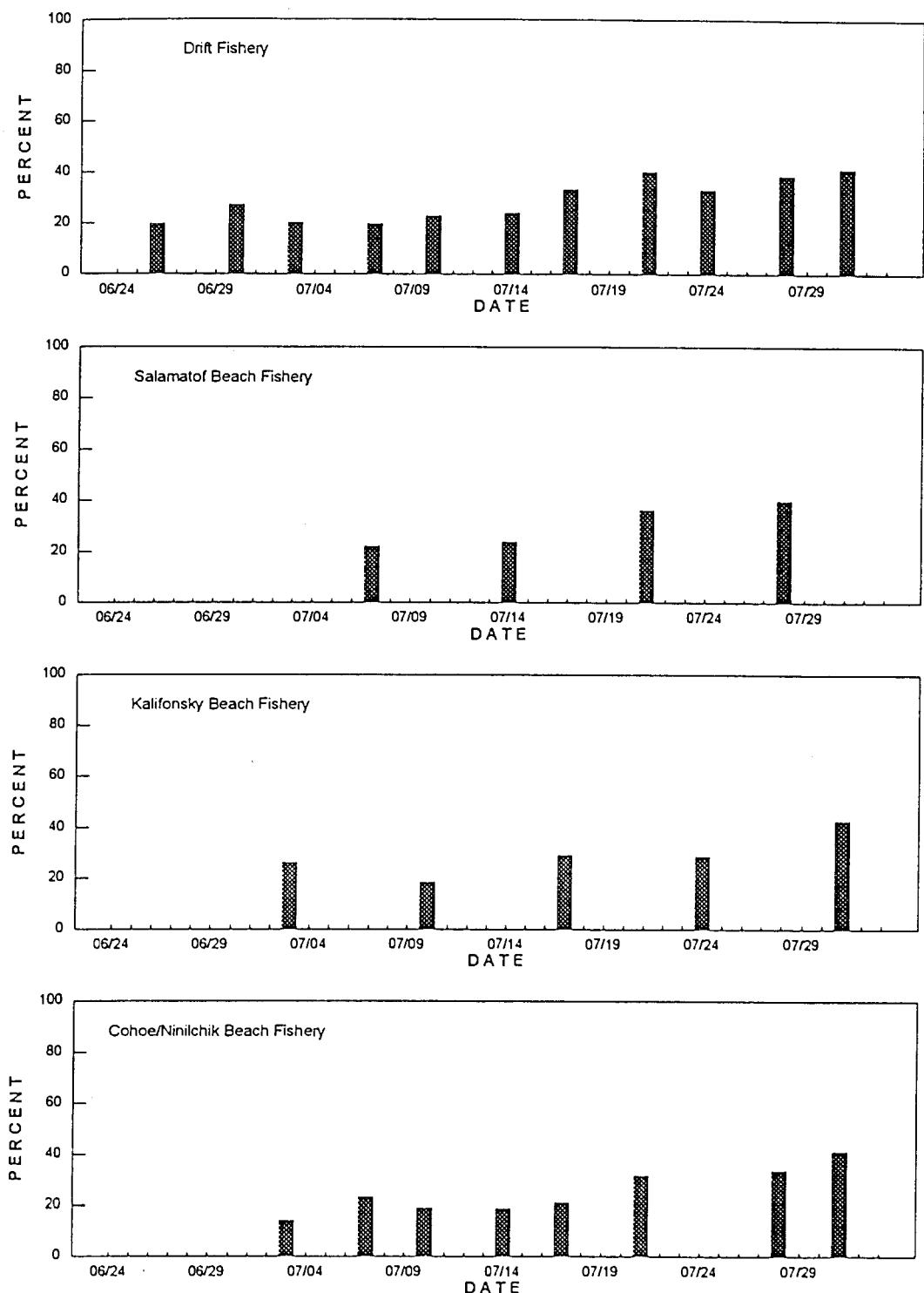


Figure 4. Trends in age-2.3 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, Kalifonsky, and Cohoe/Ninilchik Beaches) set gillnet harvests, Upper Cook Inlet, Alaska, in 1995.

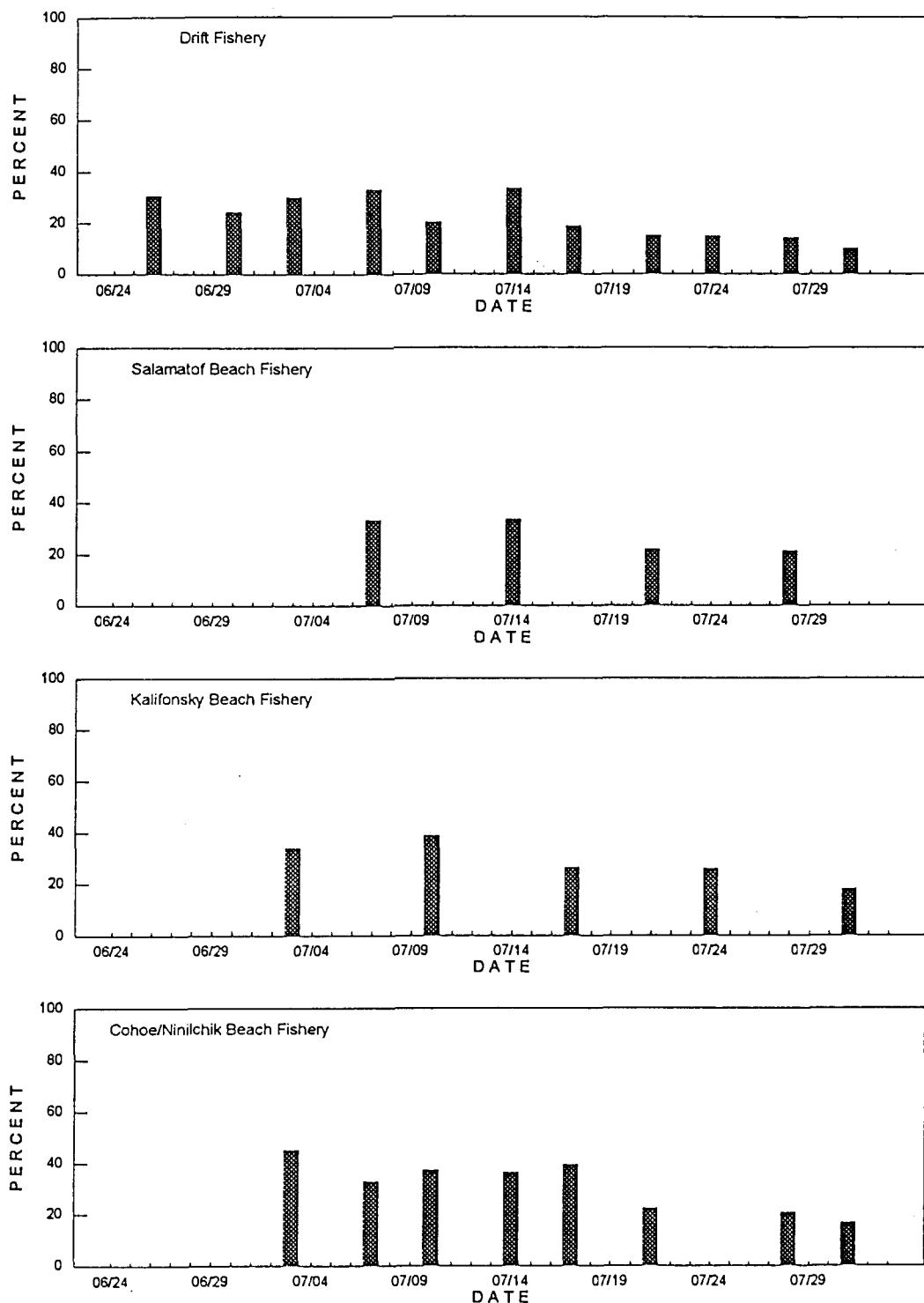


Figure 5. Trends in age-1.2 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, Kalifornsky, and Cohoe/Ninilchik Beaches) set gillnet harvests, Upper Cook Inlet, Alaska, in 1995.

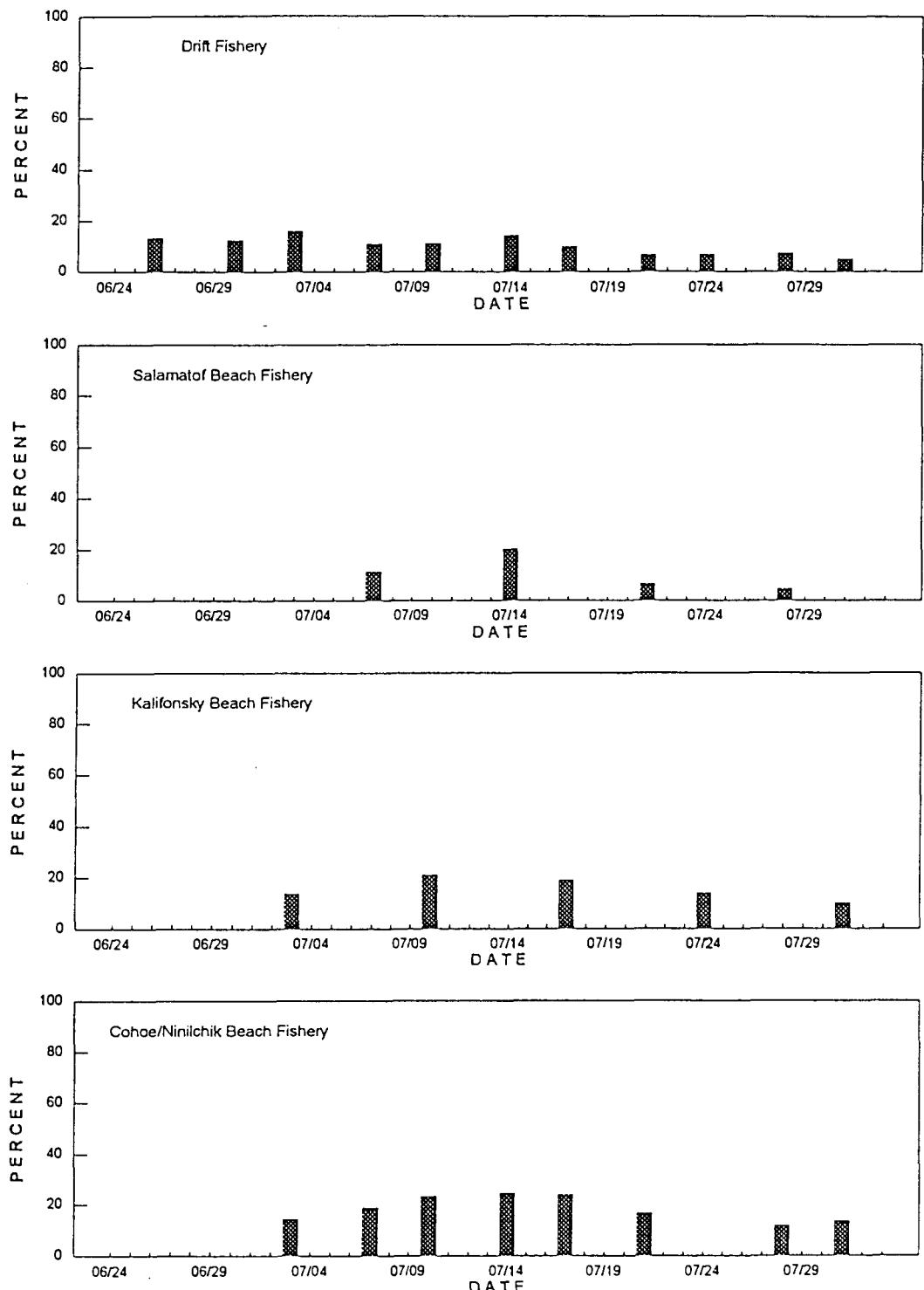


Figure 6. Trends in age-2.2 sockeye salmon composition in the Central District drift gillnet and Upper Subdistrict (Salamatof, Kalifonsky, and Cohoe/Ninilchik Beaches) set gillnet harvests, Upper Cook Inlet, Alaska, in 1995.

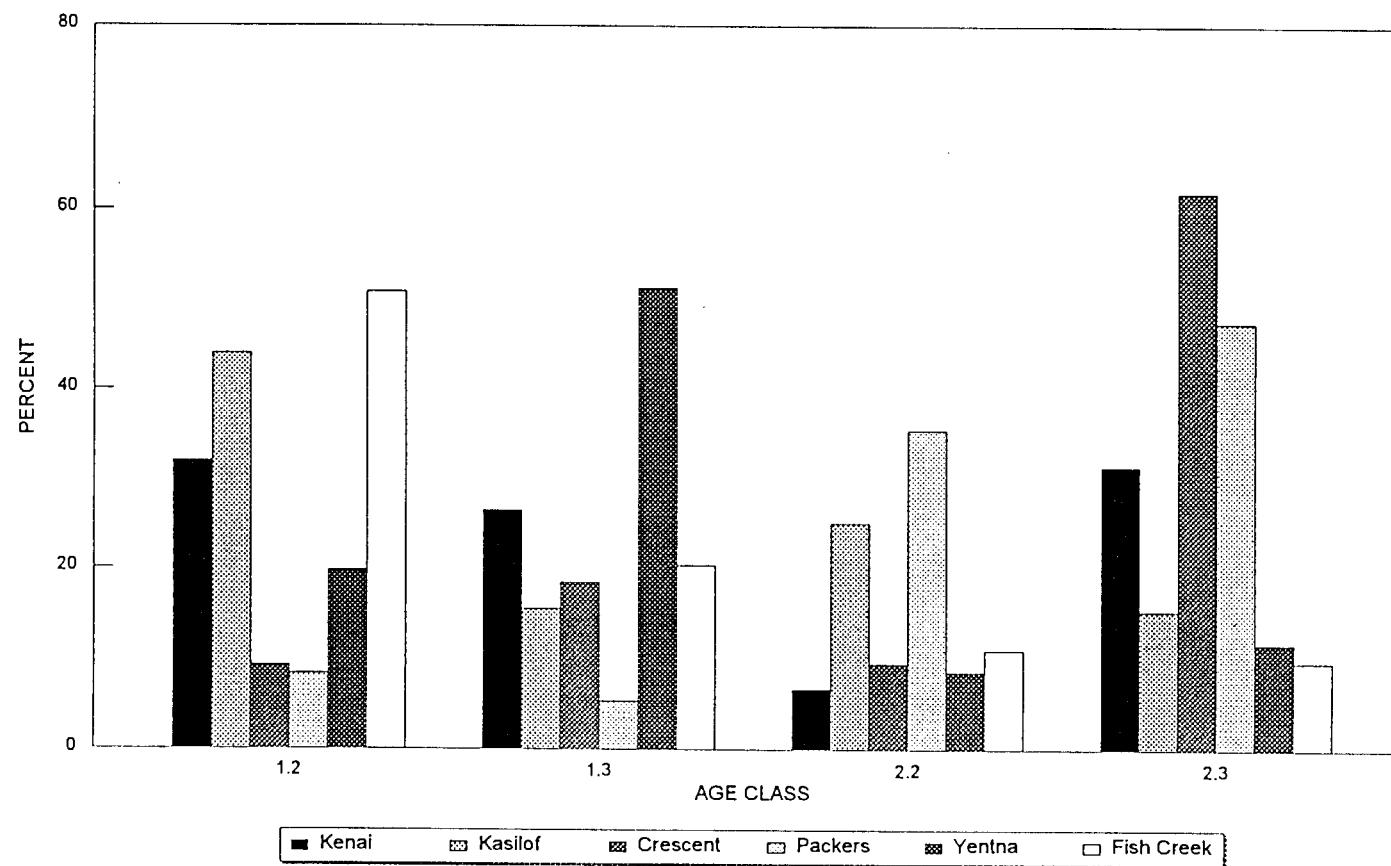


Figure 7. Age composition of sockeye salmon escapements into the Kenai, Kasilof, Crescent, and Yentna Rivers and Packers and Fish Creeks, Upper Cook Inlet, Alaska, in 1995.

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